

Ages
6-7



Grade
1

MATH WORKBOOK

Tailored to the needs
of Canadian children



Supports the math
curriculum taught in
Canadian schools



Builds math
confidence



Increases
understanding
and enjoyment of
school math



Prepares children
for math testing



Math made Easy



With **GOLD REWARD STARS!**

Progress Chart

This chart lists the topics in the book. Once you have completed each page, stick a star in the correct box below.

Page	Topic	Star	Page	Topic	Star	Page	Topic	Star
2	Numbers		13	Finding 10s		24	Subtracting	
3	Numbers and pictures		14	Tens and ones		25	Counting back	
4	Counting		15	One more or one less?		26	Sets	
5	Counting out loud		16	Ordering		27	Money	
6	Missing numbers		17	More than or less than?		28	Ordering stories	
7	Making 10		18	Greater or less?		29	Time	
8	Count by 10s		19	Comparing		30	Graphs	
9	Count by 2s		20	Halves		31	2-dimensional shapes	
10	Patterns		21	Quarters		32	3-dimensional shapes	
11	Adding machines		22	Adding up		33	Writing numbers	
12	Reading numbers		23	Adding animals		34	Counting	



Page	Topic	Star	Page	Topic	Star	Page	Topic	Star
35	Counting on by 2s		49	Expanded form		63	Numbers	
36	Most and least		50	Adding dice		64	Numbers	
37	Counting by 10s		51	Adding		65	Addition	
38	Counting forward or back		52	Crossing out		66	1 less or 1 more	
39	Reading numbers		53	Subtraction		67	Tallies	
40	Tens and ones		54	Sets of		68	Using a table	
41	Comparisons		55	Sharing		69	Patterns of 2, 5, and 10	
42	Comparing money		56	Addition properties		70	More or less	
43	Spot the doubles		57	Most and least likely		71	Ordering	
44	10 more or 10 less		58	Days and seasons		72	Fractions of shapes	
45	Ordinals		59	Using clocks		73	Addition	
46	Ordering		60	Favourite fruits		74	Adding coins	
47	Halves and fourths		61	Draw the other half		75	Addition grid	
48	Place value		62	Where's the bear?		76	Doubles	

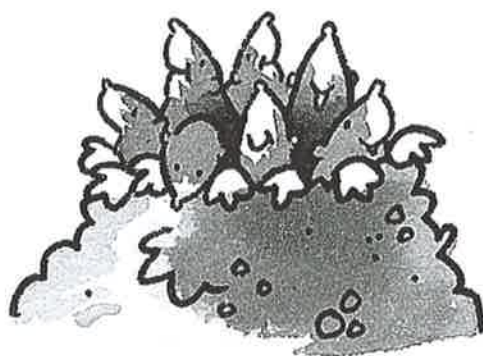
Page	Topic	Star	Page	Topic	Star	Page	Topic	Star
77	Fact families		91	Venn diagrams		105	Fact families	
78	Addition		92	Similar shapes		106	Adding money	
79	Subtraction		93	2-dimensional shapes		107	Using doubles	
80	Subtraction		94	3-dimensional shapes		108	Adding up	
81	Subtraction		95	Read, write, and draw		109	Count by 2s	
82	Real-life problems		96	Counting		110	Addition	
83	Real-life problems		97	Bar graphs		111	Addition	
84	Subtraction tables		98	Subtraction		112	Addition and subtraction	
85	Counting down		99	2s, 5s, and 10s		113	Real-life problems	
86	Clocks		100	Comparing		114	Real-life problems	
87	Digital clocks		101	Ordering		115	Addition	
88	Match the times		102	Subtraction		116	Clocks and watches	
89	Do you know?		103	Matching fractions		117	Puzzles	
90	Matching shapes		104	Money		118	Tables	

Page	Topic	Star	Page	Topic	Star	Page	Topic	Star
119	Venn diagrams	★	133	Estimating length	★	145	Properties of polygons	★
120	Appropriate units of measure	★	134	Subtracting	★	146	Venn diagrams	★
121	Symmetry	★	135	Simple tally charts and bar graphs	★	147	Most likely/least likely	★
122	2-dimensional shapes	★	136	Addition properties	★	148	3-dimensional shapes	★
123	Equal value	★	137	Equations	★	149	Counting	★
124	Shapes and places	★	138	Picture graphs	★	150	Finding patterns	★
125	Numbers	★	139	3-dimensional shapes	★	151	Reading tally charts	★
126	Counting by 1s and 10s	★	140	Missing addends	★	152	Same shape and size	★
127	Counting by 2s	★	141	Reading tables	★	153	Parts of a set	★
128	Odd and even	★	142	Adding	★	154	Symmetry	★
129	More and less	★	143	Reading a calendar	★	155	Measurement problems	★
130	Fact families	★	144	Subtracting	★	156	3-dimensional shapes	★
131	Fractions	★	  					
132	Adding	★						

Math made Easy

Grade 1
Ages 6-7

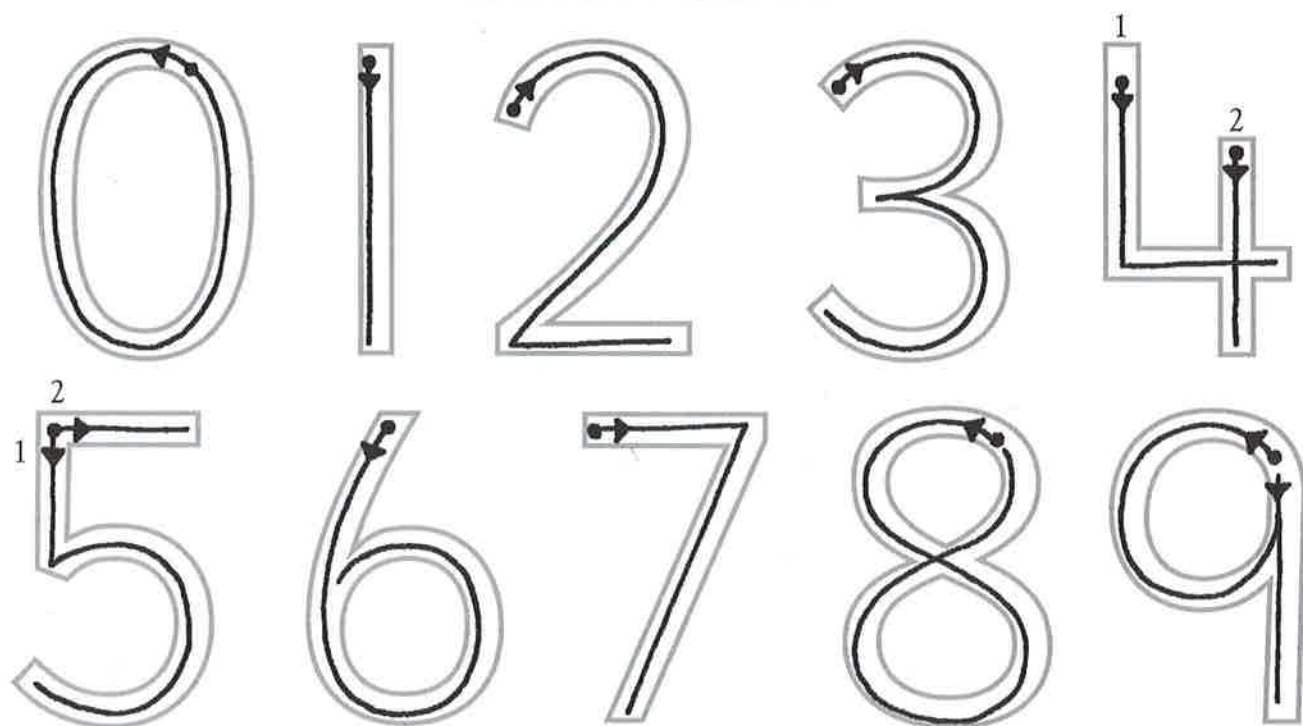
Canadian Editor
Marilyn Wilson



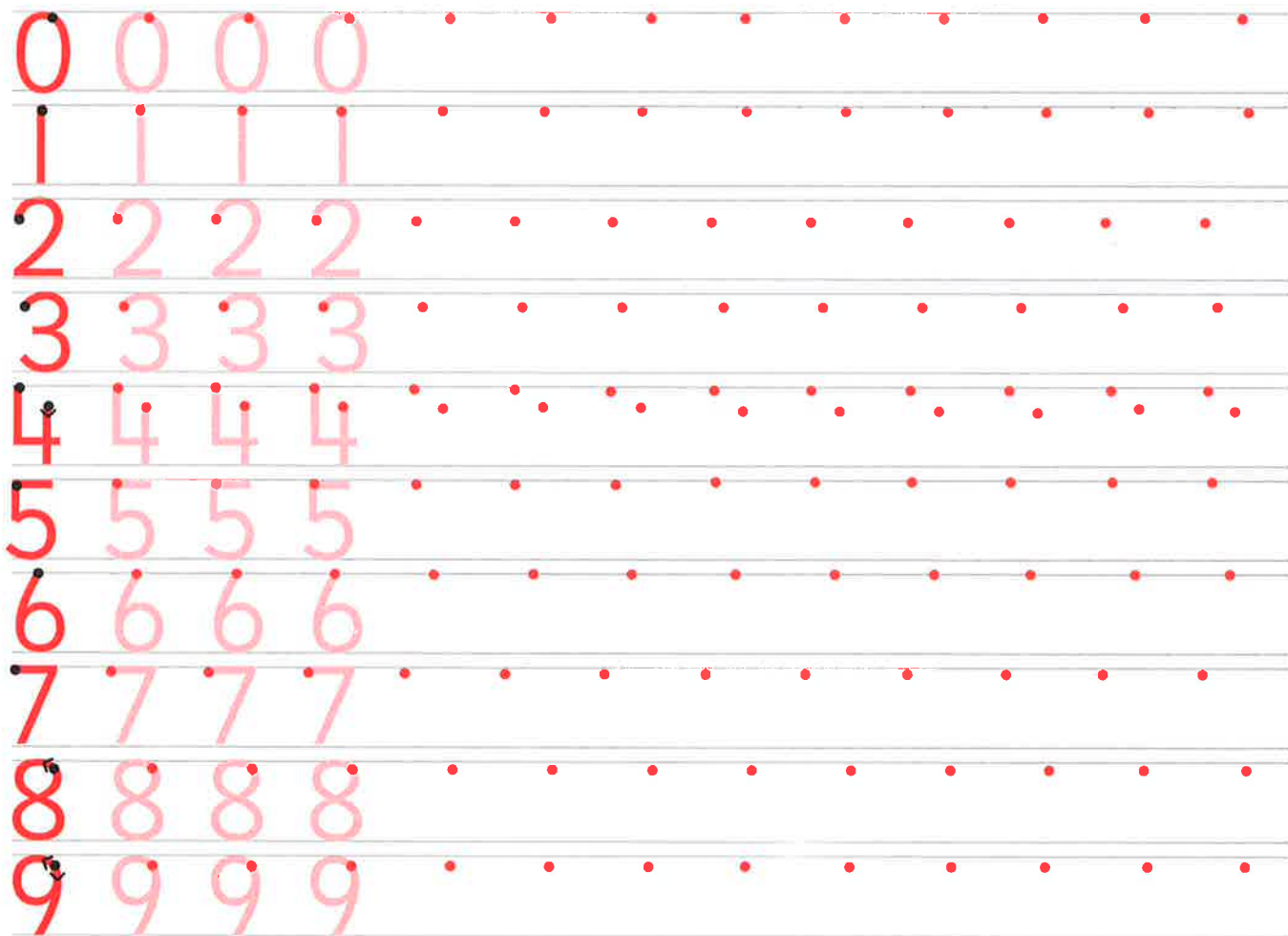


Numbers

Trace the numbers.



Write the numbers.



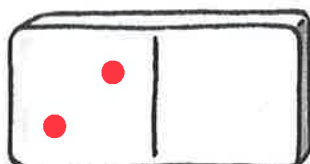
Numbers and pictures



Count the animals, draw the dots, and write the number.



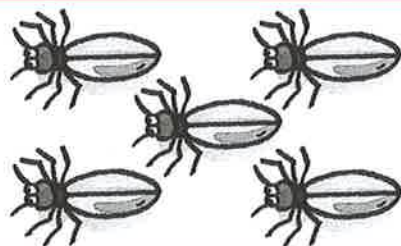
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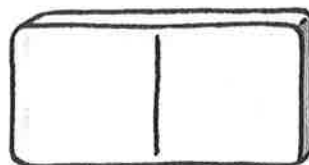
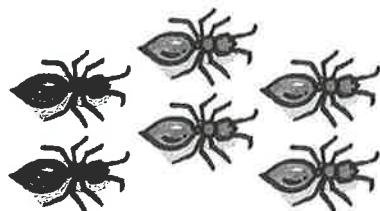
two



.....



.....



.....

Draw your own examples.



.....

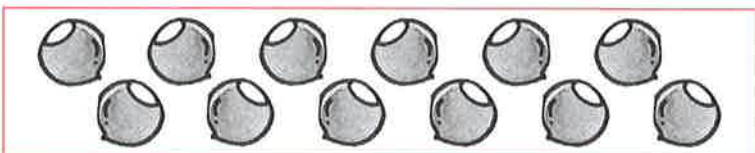
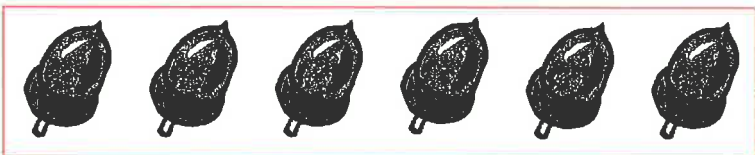


.....



Counting

Connect each set to the correct number.



8

9

6

15

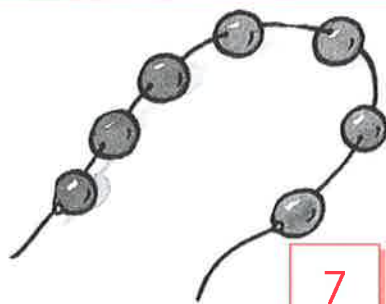
10

Draw your own set to match the number.

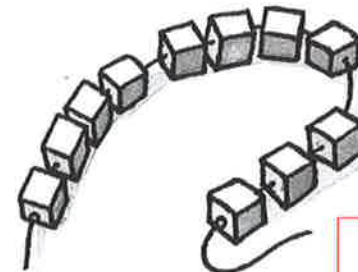
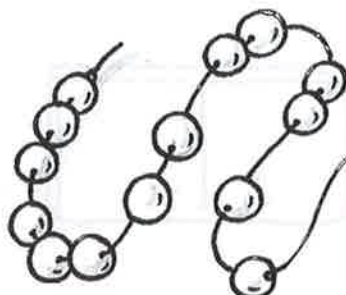
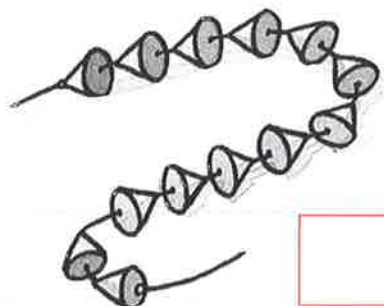
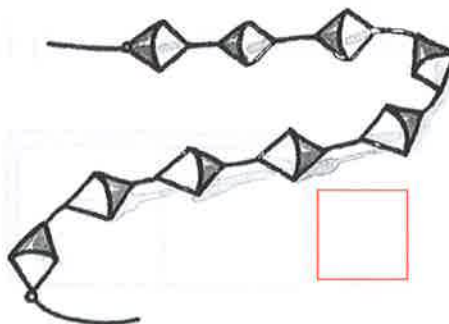


12

Count the beads.

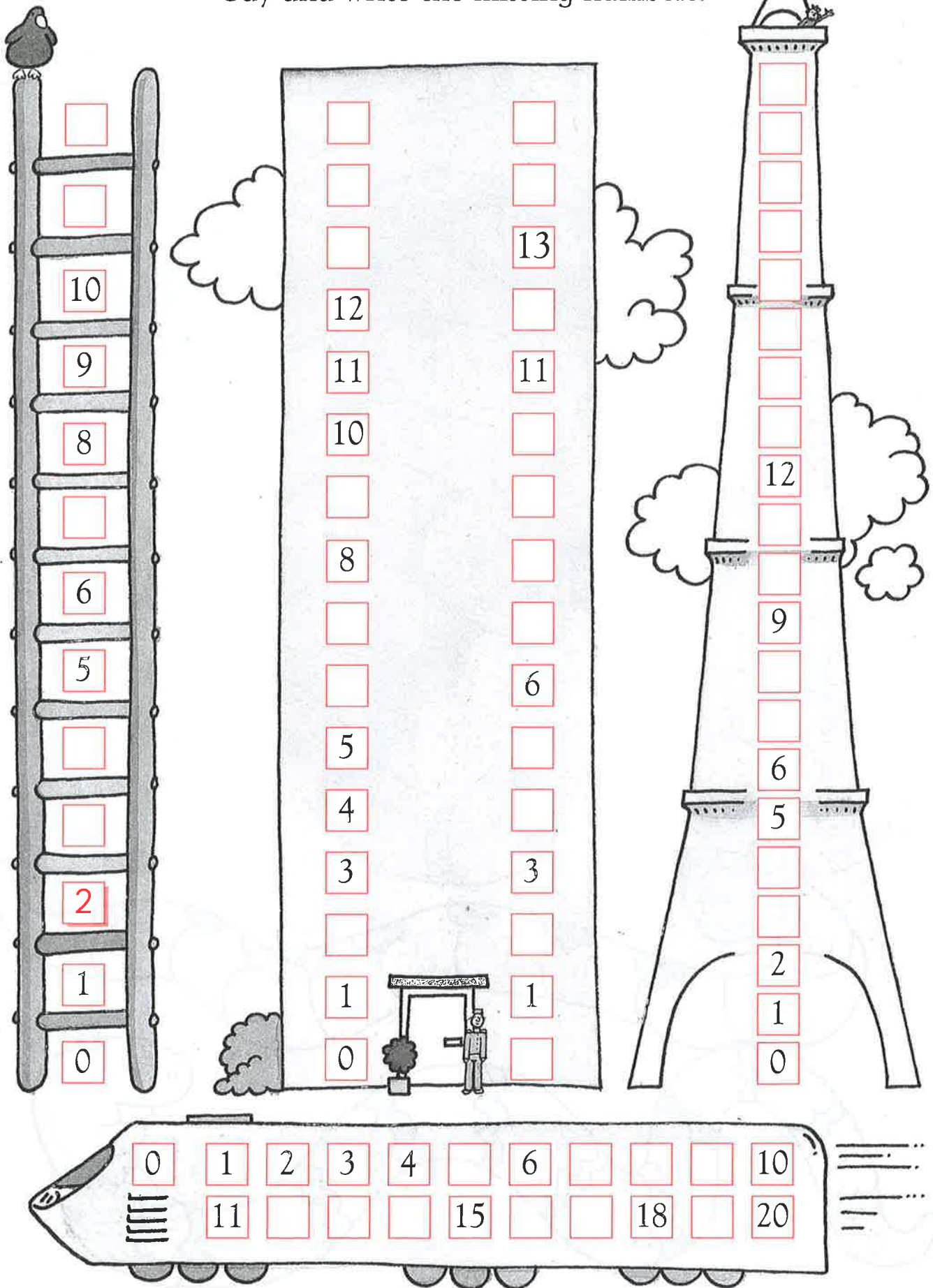


7



Counting out loud

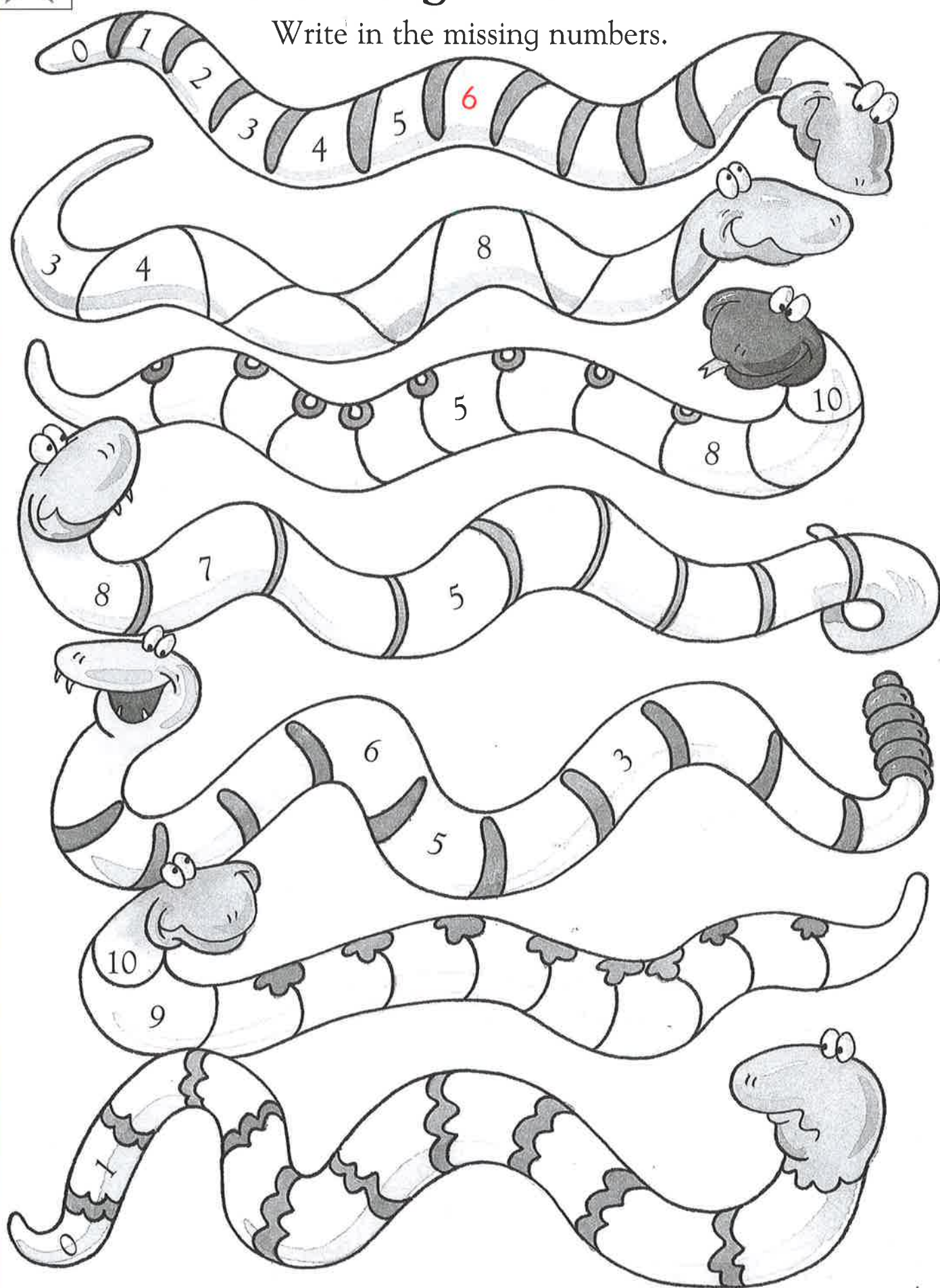
Say and write the missing numbers.





Missing numbers





Write in the missing numbers.











Making 10











Colour some fish red, and write the correct numbers in the boxes.







 red white
 + = 10



 red white
 + = 10



 red white
 + = 10



 red white
 + = 10



 red white
 + = 10



 red white
 + = 10

Write the missing numbers in the boxes to make 10.

$10 + \boxed{0} = 10$

$6 + \boxed{} = 10$

$2 + \boxed{} = 10$

$9 + \boxed{} = 10$

$5 + \boxed{} = 10$

$1 + \boxed{} = 10$

$8 + \boxed{} = 10$

$4 + \boxed{} = 10$

$0 + \boxed{} = 10$

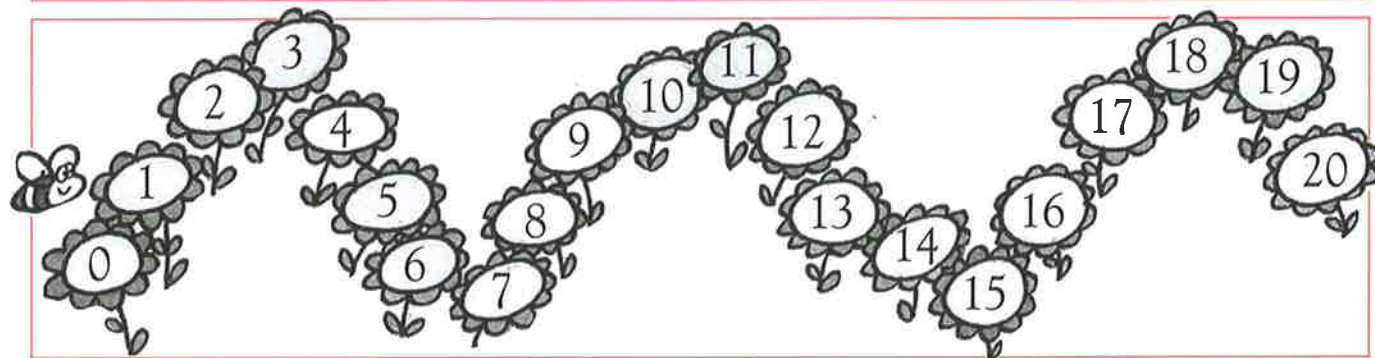
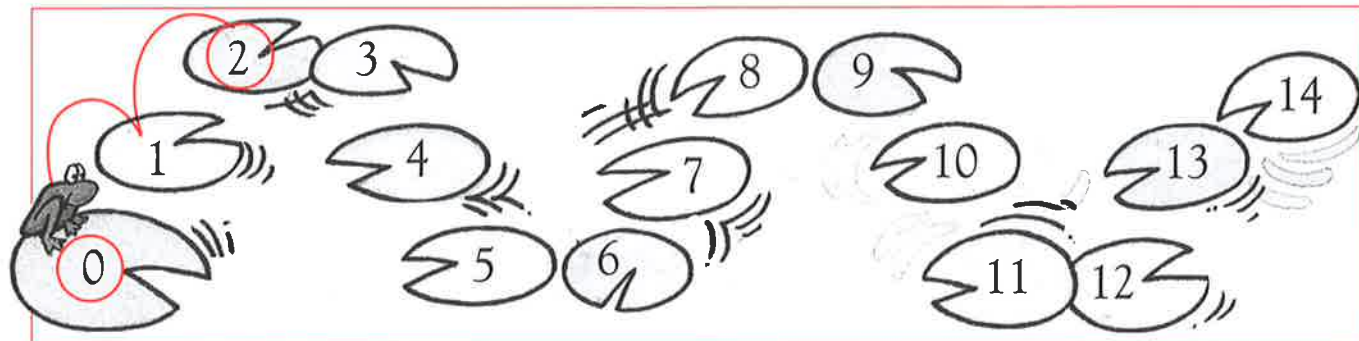
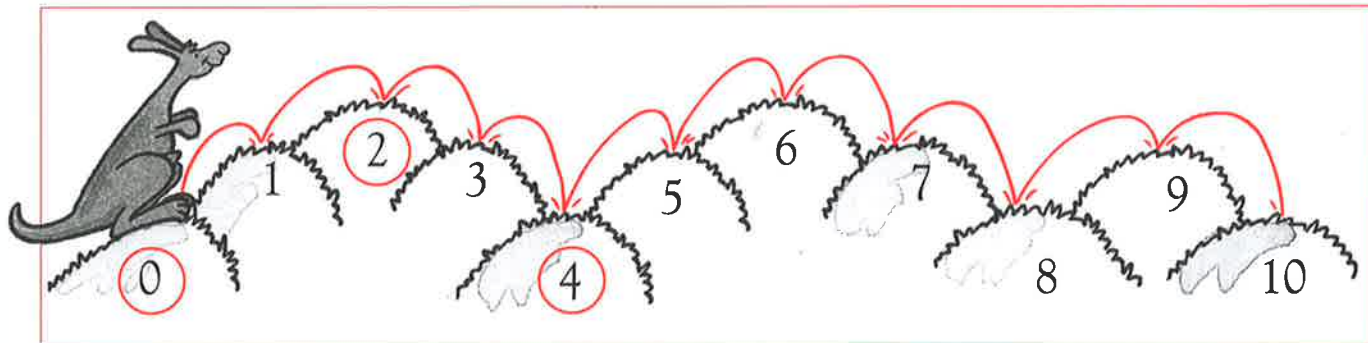
$7 + \boxed{} = 10$

$3 + \boxed{} = 10$

Count by 2s



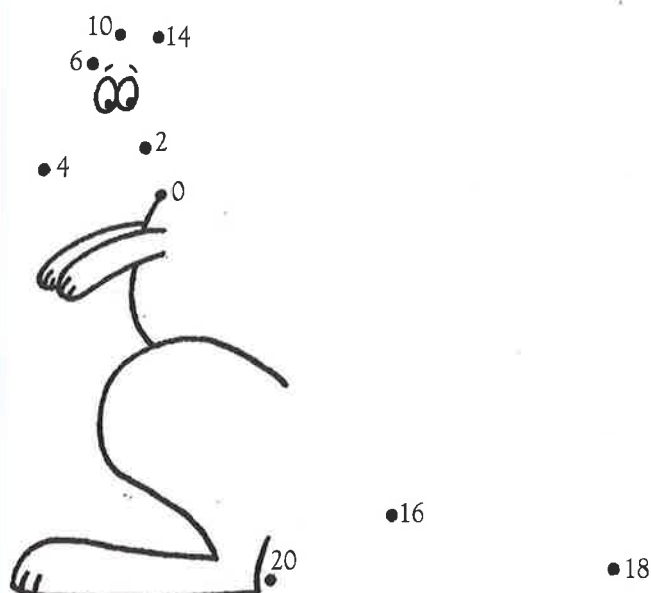
Fill in the "hops" and circle the even numbers.



Colour the even numbers.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

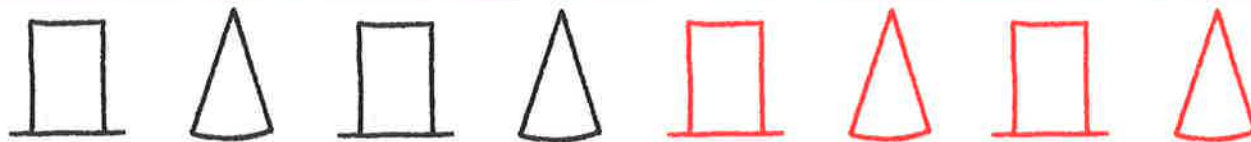
Connect the dots in order.





Patterns

Continue the pattern.



Make your own patterns.

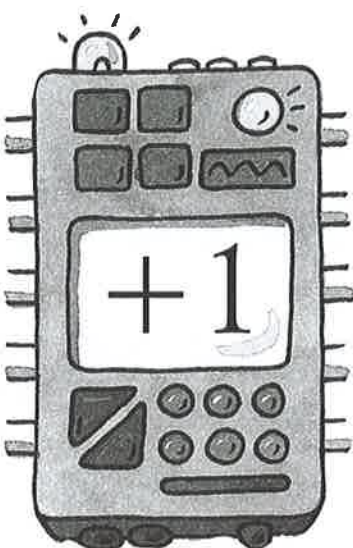
Continue the number patterns.

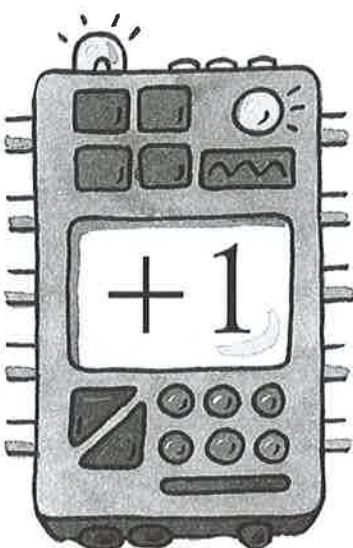
2	4	6	2	4	6	2	4	6				
10	9	9	10	9								
1	3	5	7	1								
5	5	5	6	5								

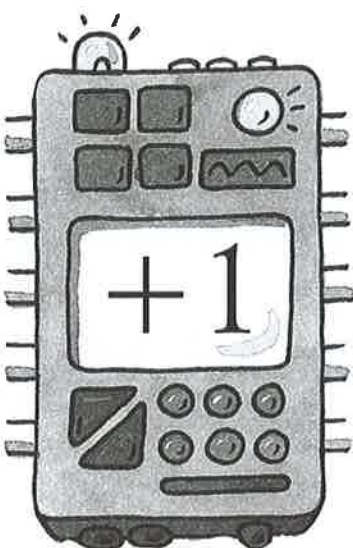
Adding machines

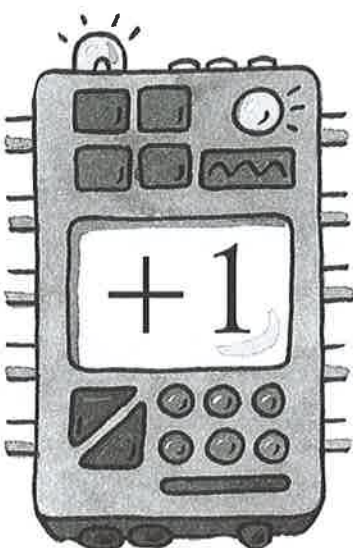


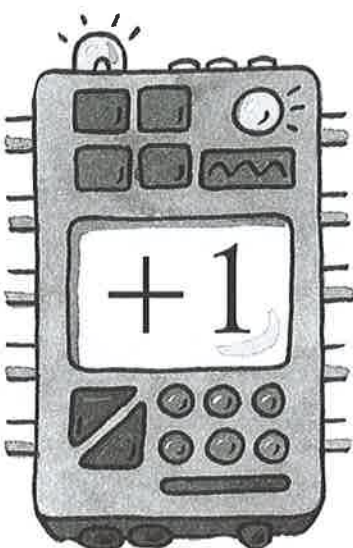
Add the numbers, and write the answers.


1 →  =


3 →  =


5 →  =


7 →  =


9 →  =

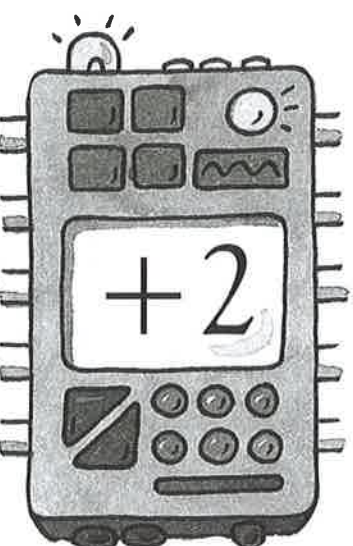
2 →  =

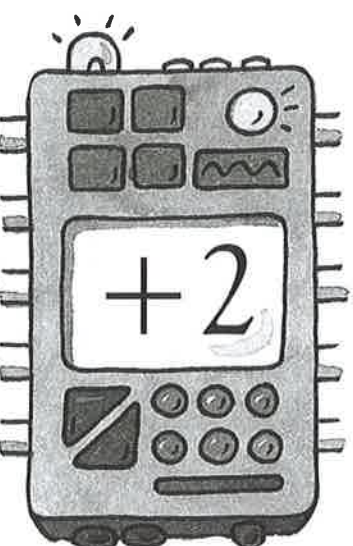
4 →  =

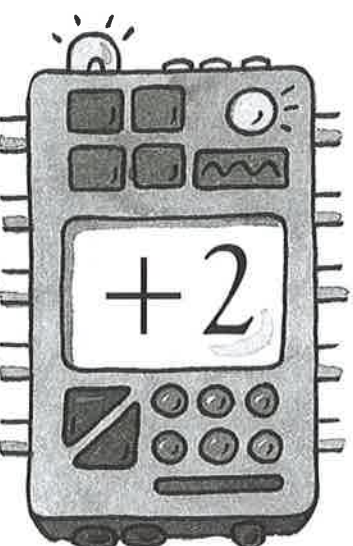
6 →  =

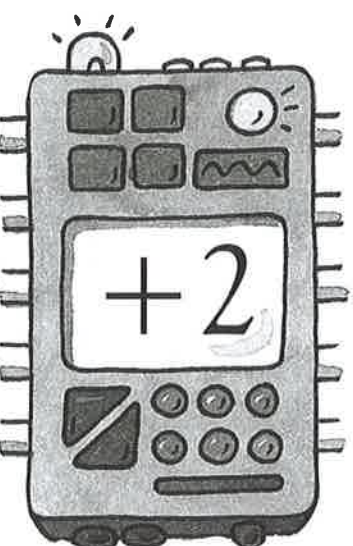
8 →  =

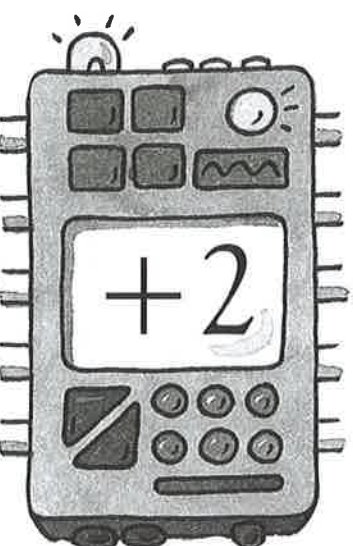
10 →  =

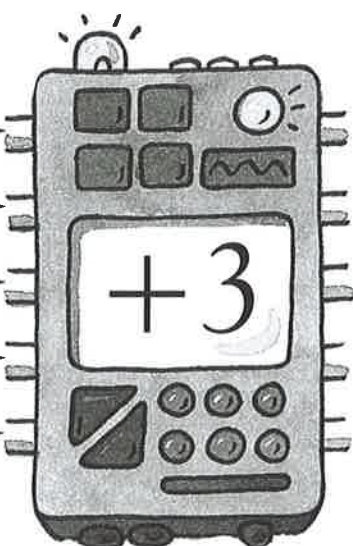
9 →  =

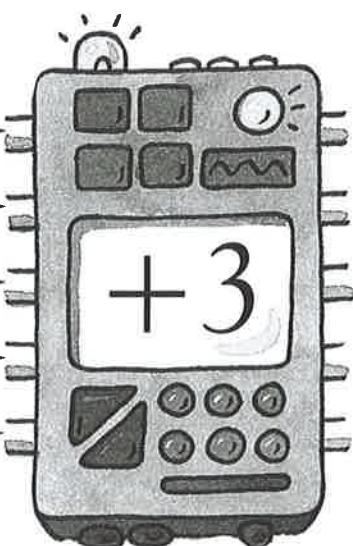
11 →  =

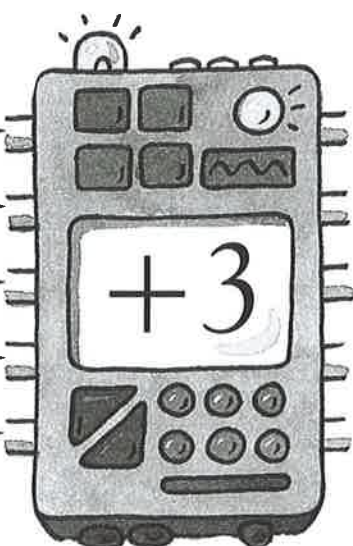
13 →  =

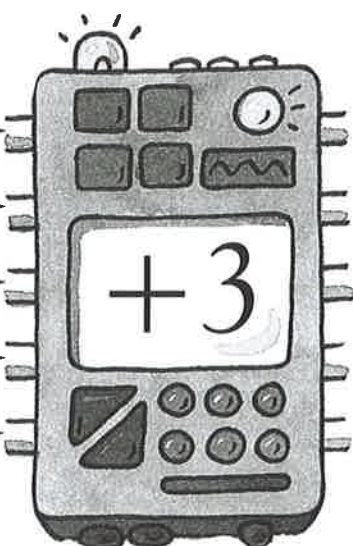
15 →  =

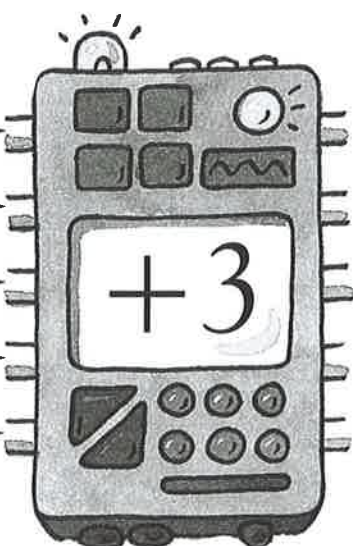
17 →  =

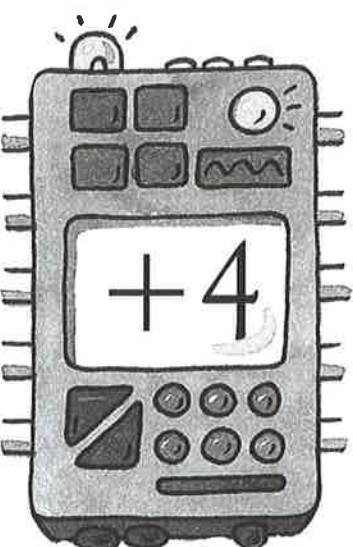
8 →  =

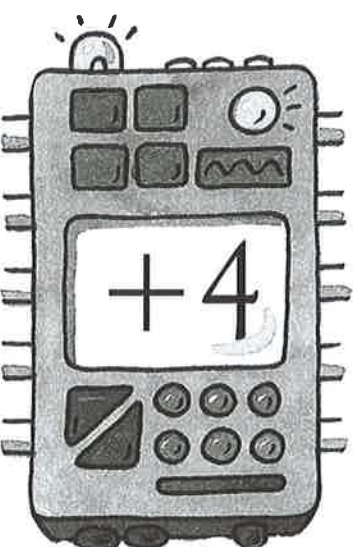
10 →  =

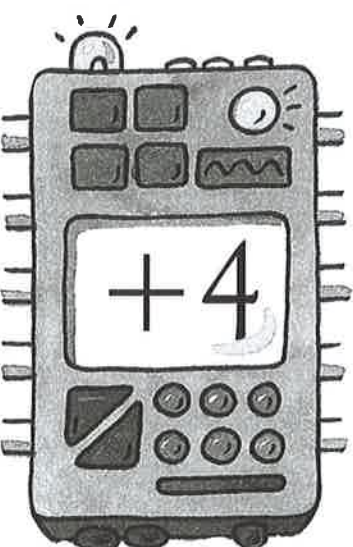
12 →  =

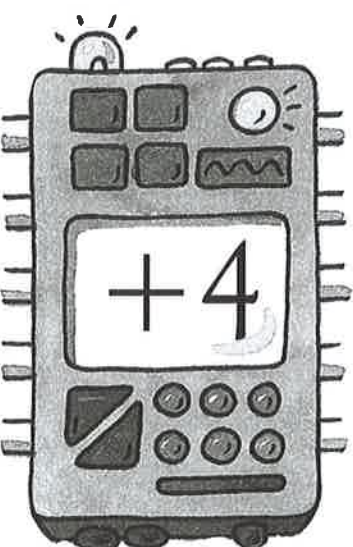
14 →  =

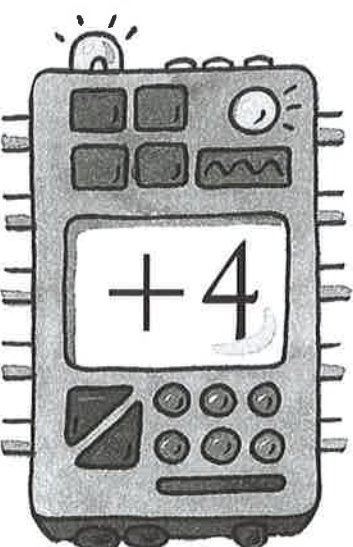
16 →  =


2 →  =


6 →  =


12 →  =


14 →  =


16 →  =

3 →  =

7 →  =

11 →  =

13 →  =

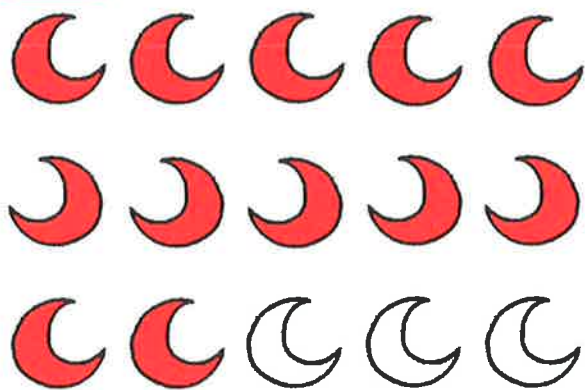
15 →  =



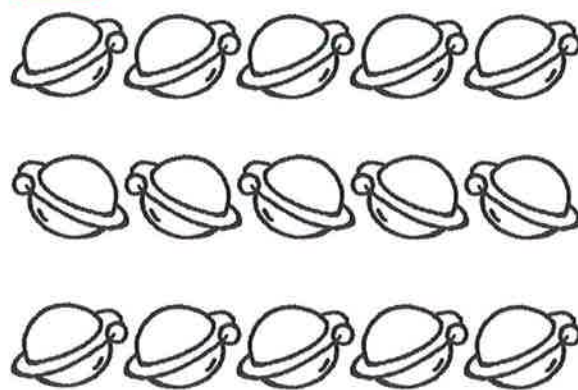
Reading numbers

Colour enough things to match the number in each box.

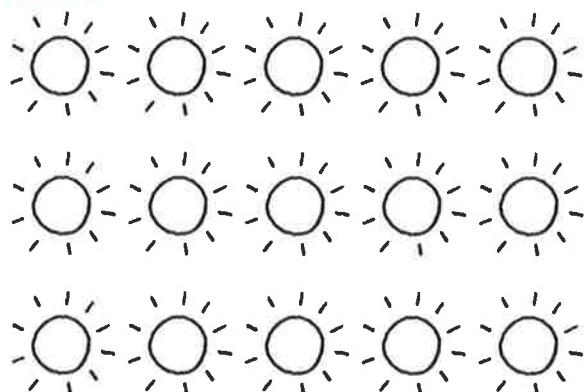
12



10



9

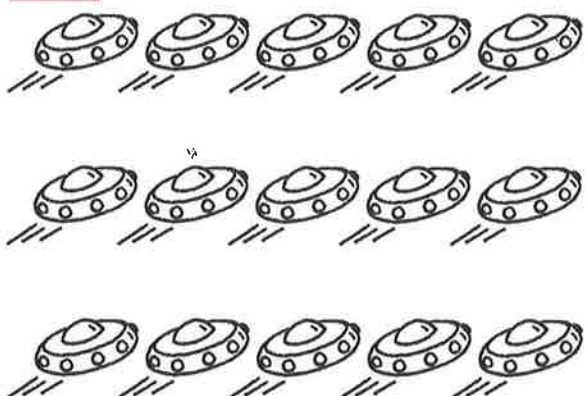


7



Draw your own example.

11

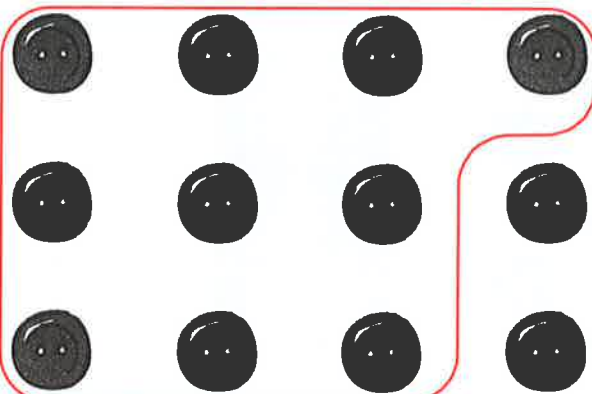


Finding 10s

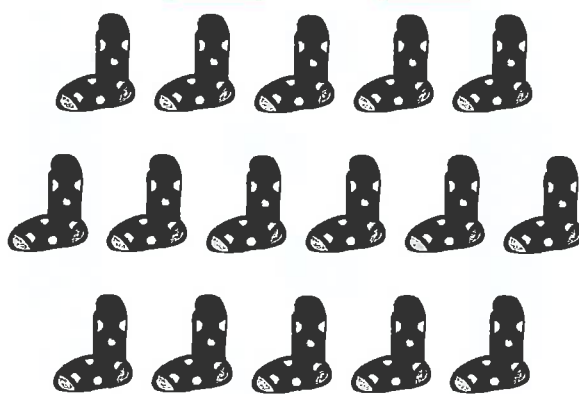


Ring 10 items, and write the numbers.

$$12 = \boxed{10} + \boxed{2}$$



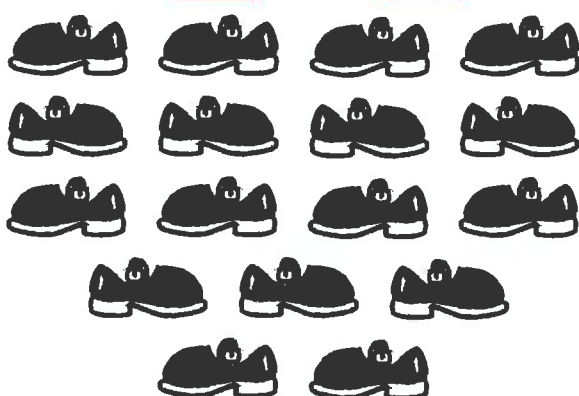
$$16 = \boxed{} + \boxed{}$$



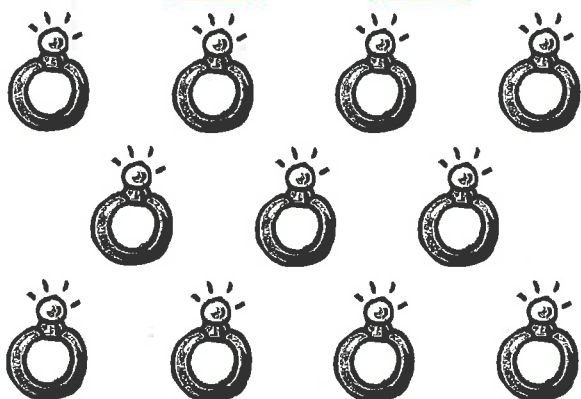
$$19 = \boxed{} + \boxed{}$$



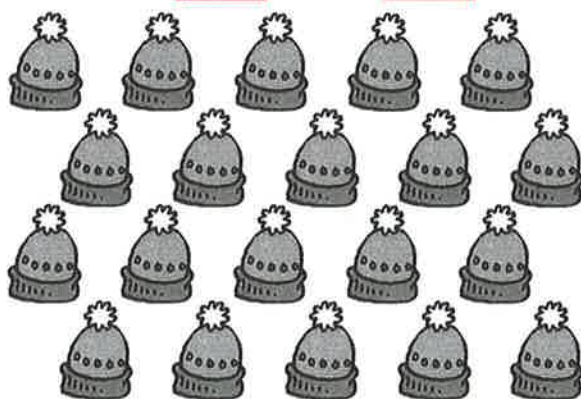
$$17 = \boxed{} + \boxed{}$$



$$11 = \boxed{} + \boxed{}$$




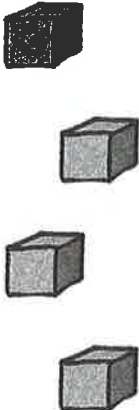

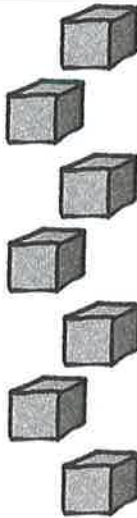
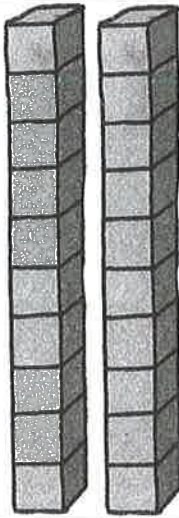
$$20 = \boxed{} + \boxed{}$$





Tens and ones

How many tens and ones do you see?

tens	ones	tens	ones	tens	ones
					
1	4				

14

Draw the tens and ones.

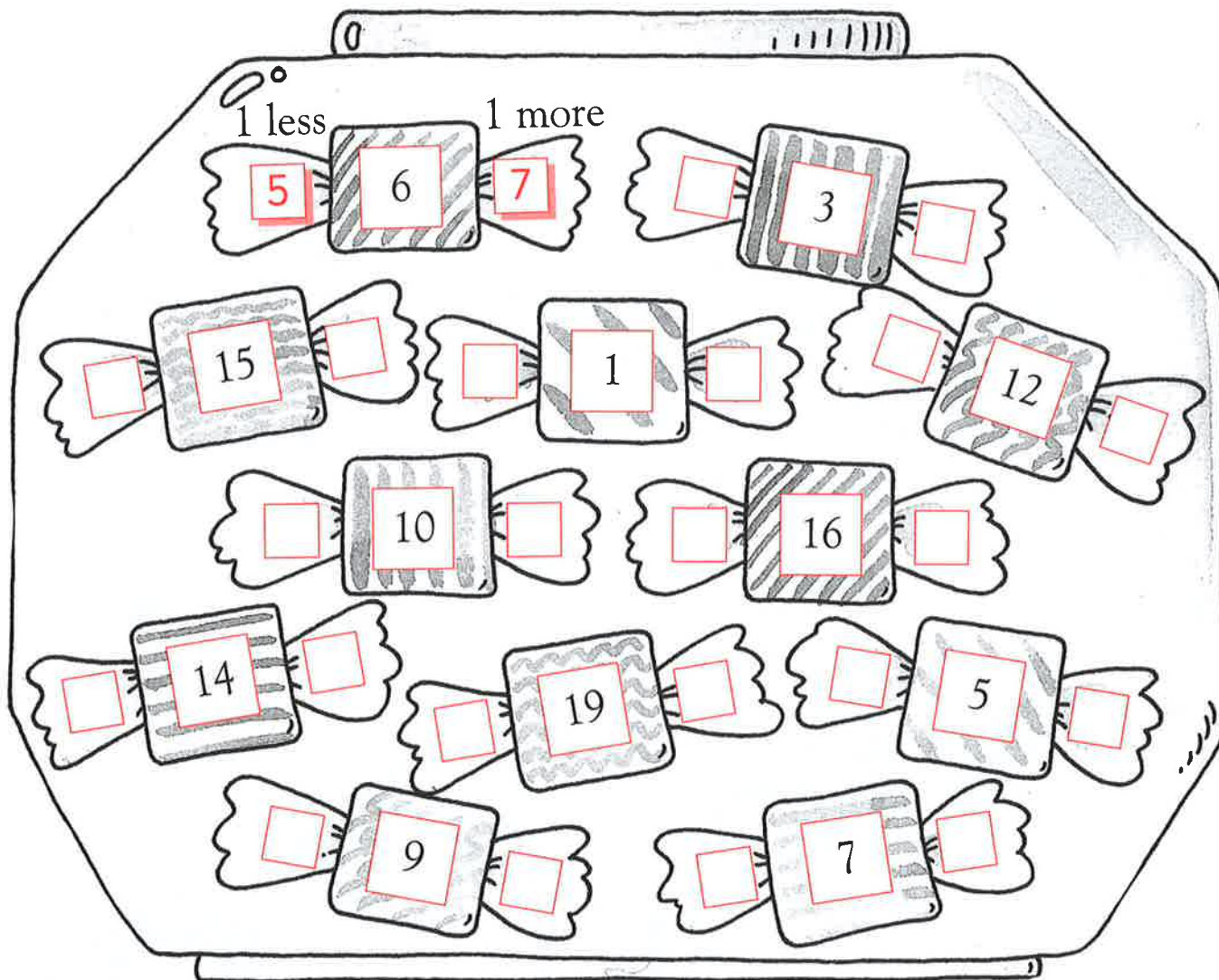
tens	ones	tens	ones	tens	ones
1	9	1	5		3

19

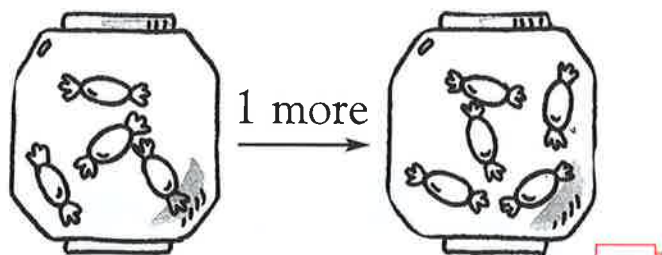
One more or one less?



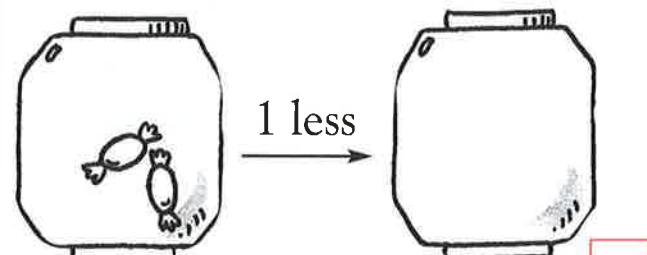
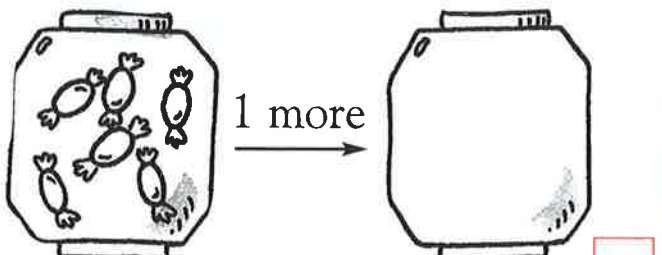
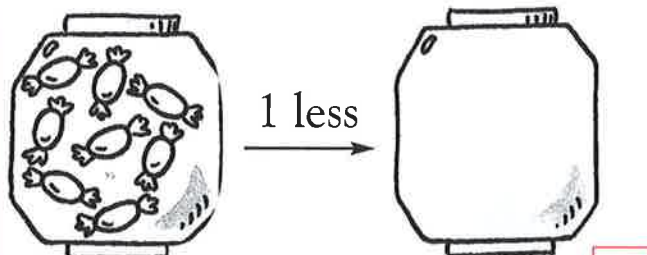
Write one less and one more than the numbers shown in the boxes.



Draw one more or one less, and write the new number.



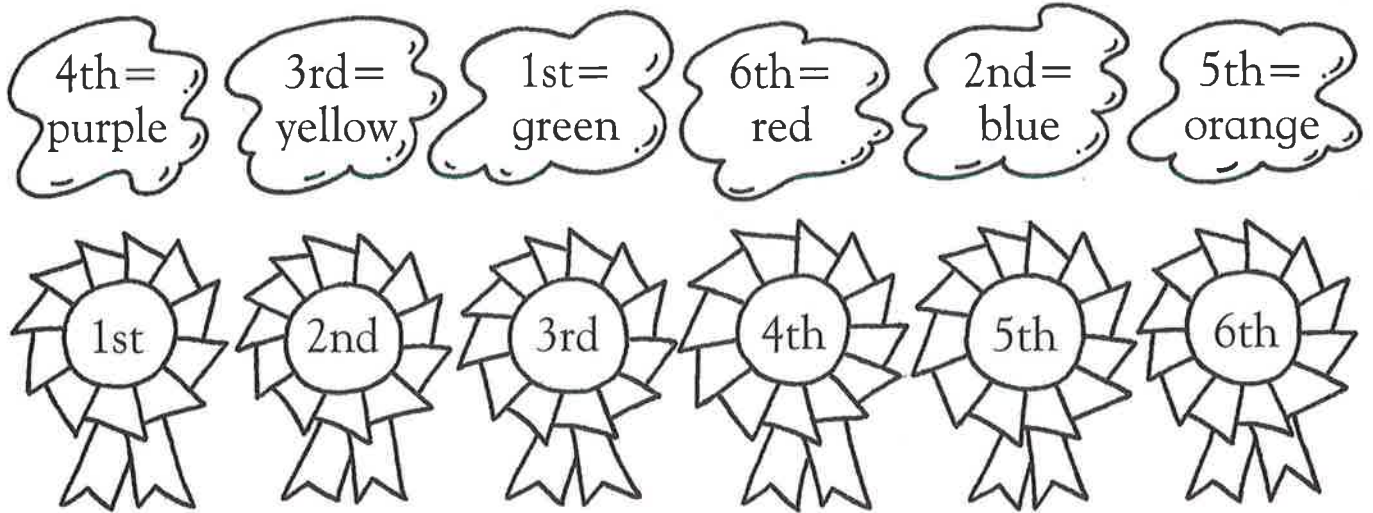
5



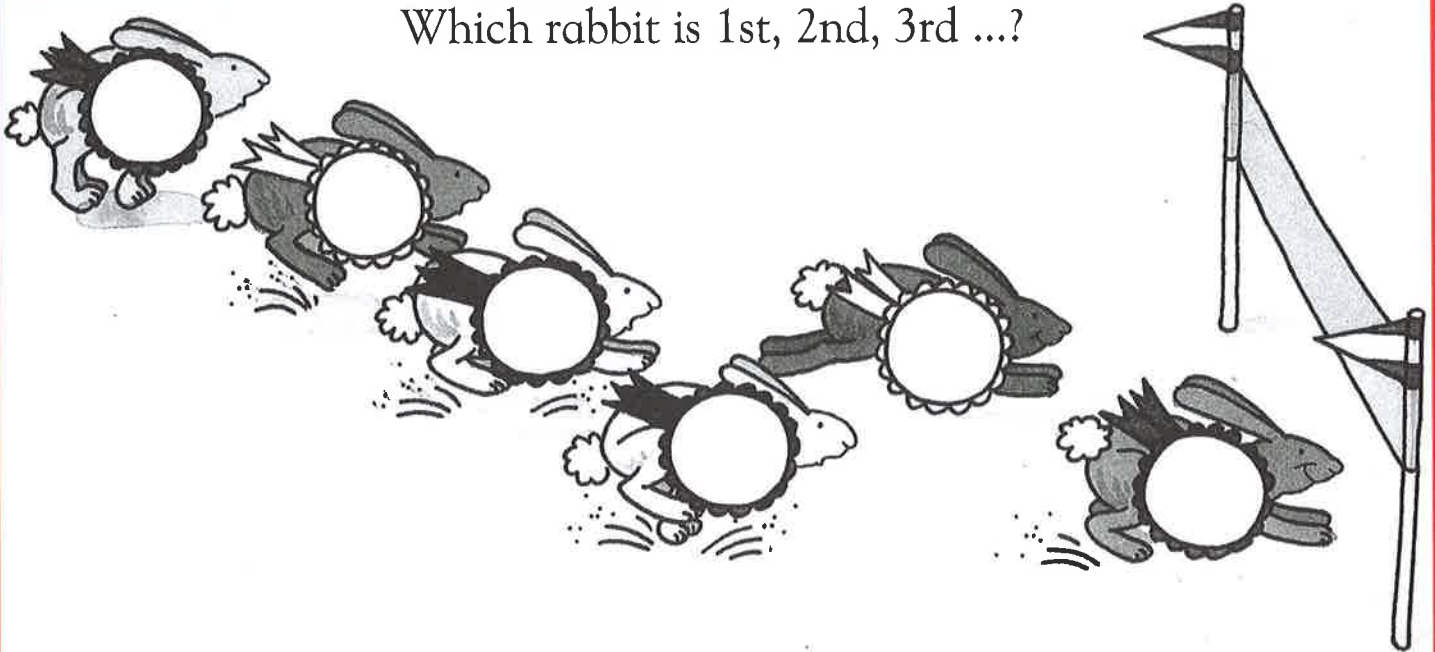


Ordering

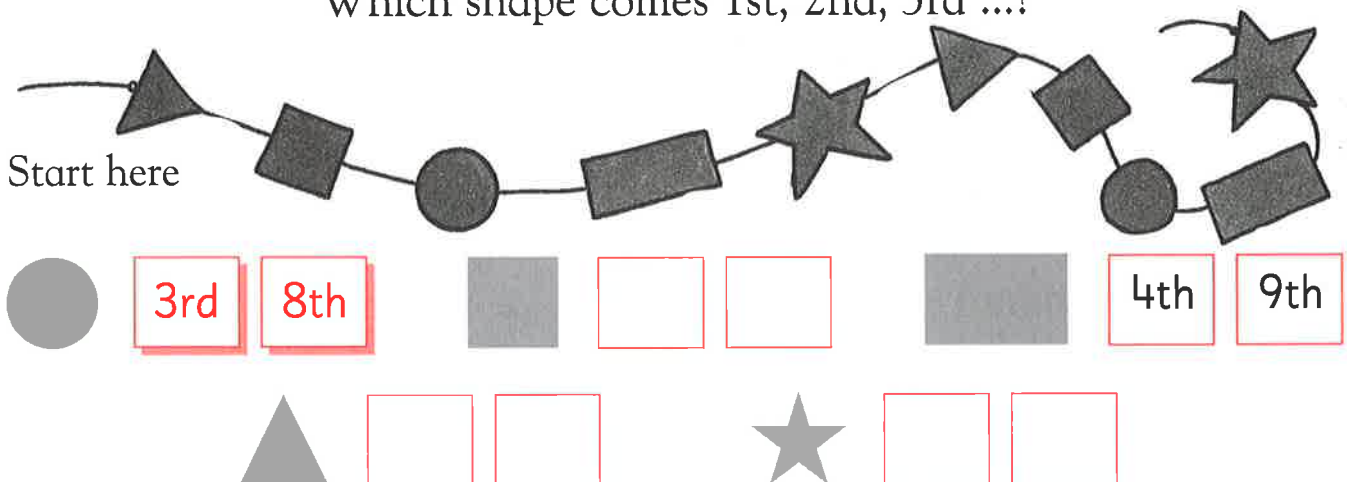
Colour the prize ribbons.



Which rabbit is 1st, 2nd, 3rd ...?




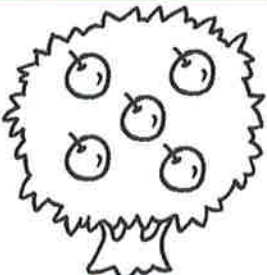
Which shape comes 1st, 2nd, 3rd ...?




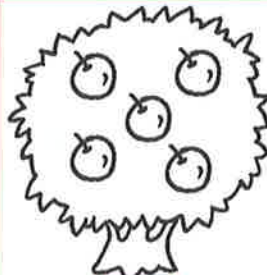
More than or less than?



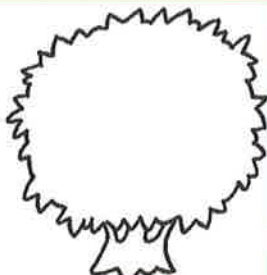

Fill in the apples and numbers that make each sentence true.




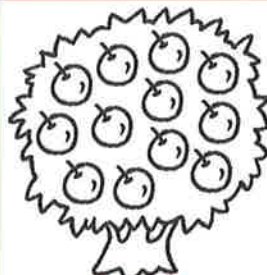
is more than



is more than





is more than





is more than



Fill in the flowers and numbers that make each sentence true.





is less than



is less than



is less than



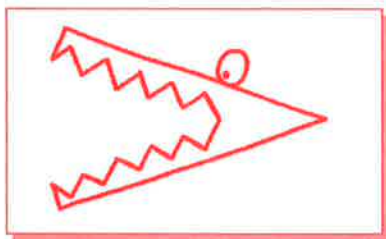
is less than



Greater or less?

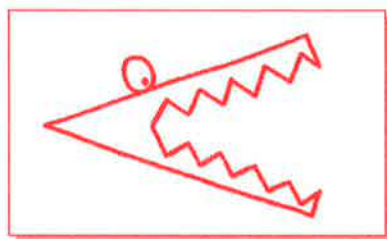
Draw the hungry crocodiles.
They always eat the greater numbers!

6



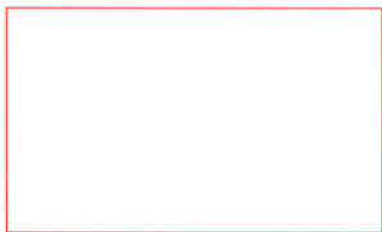
4

2



12

5



10

3



13

8



13

6



16

15



9

15



20

10



2

11



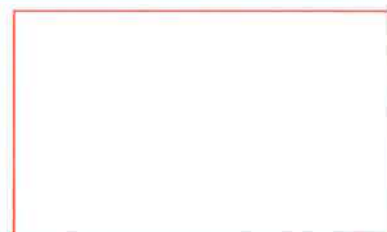
12

20



10

1



0

Comparing



heavier

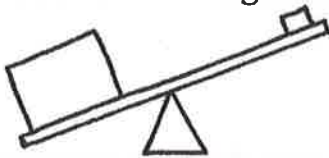
lighter

bigger

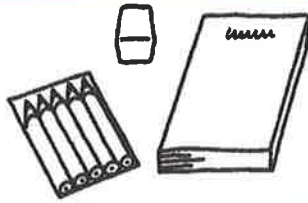
smaller

longer

shorter



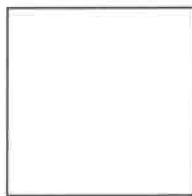
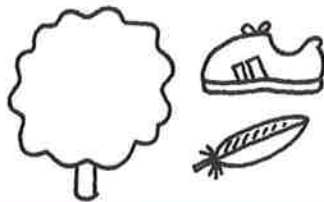
Draw the pictures to make each comparison true.



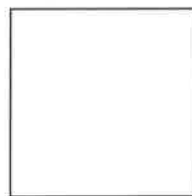
heavier
than



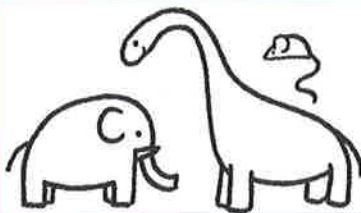
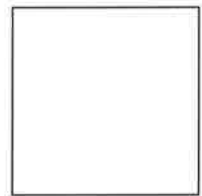
heavier
than



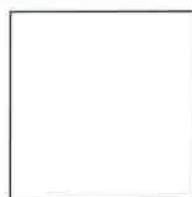
lighter
than



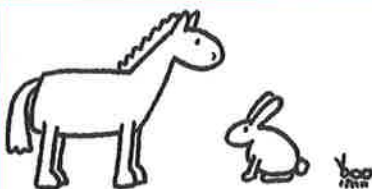
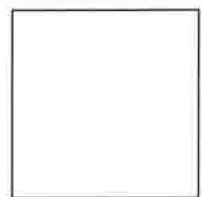
lighter
than



bigger
than



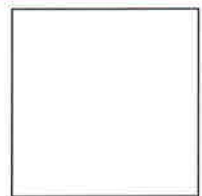
bigger
than



smaller
than



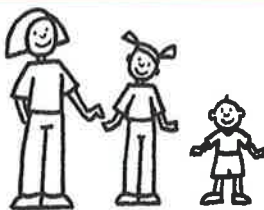
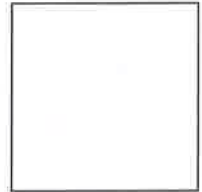
smaller
than



longer
than



longer
than



shorter
than



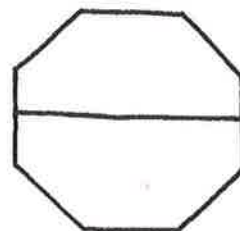
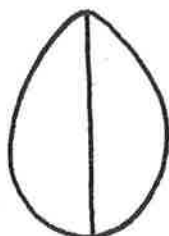
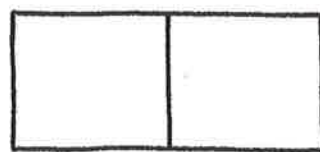
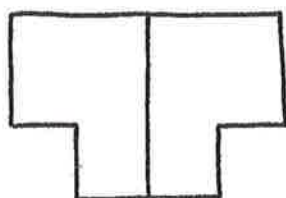
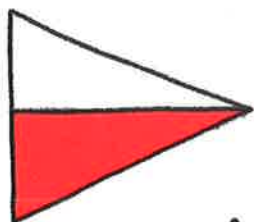
shorter
than



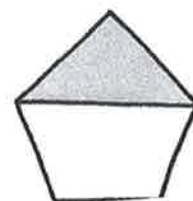
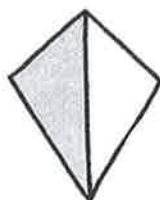
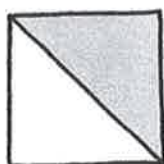
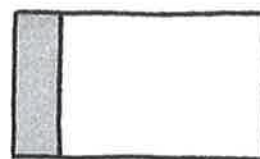
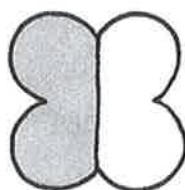
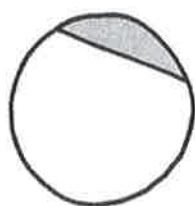


Halves

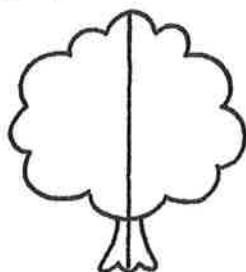
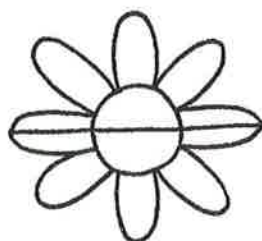
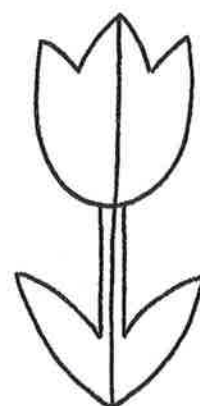
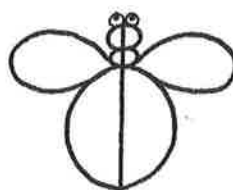
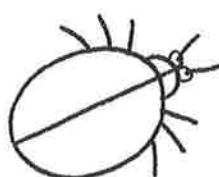
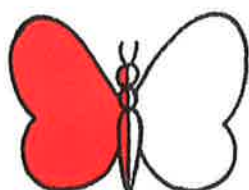
Colour one half ($\frac{1}{2}$) of each shape.



Write a ✓ in the box if $\frac{1}{2}$ the figure is shaded and a ✕ if less than $\frac{1}{2}$ is shaded.



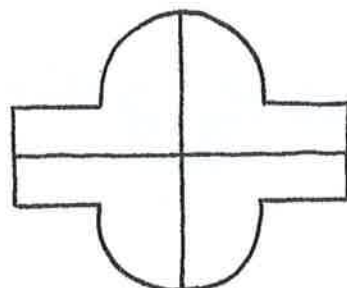
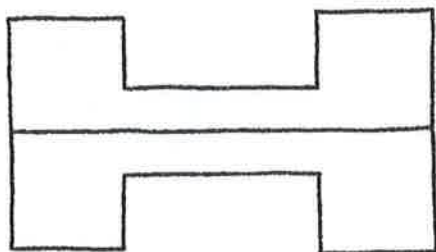
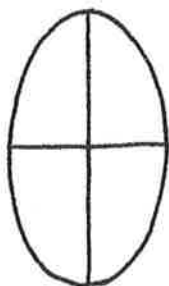
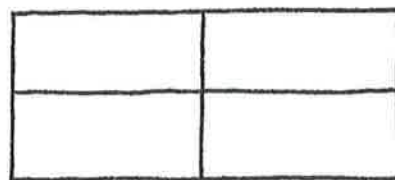
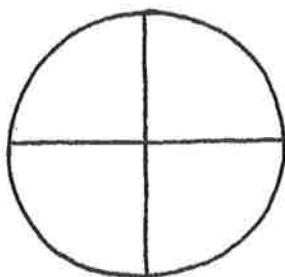
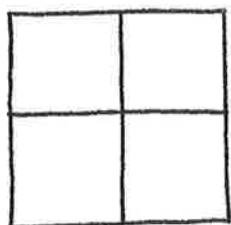
Colour one half ($\frac{1}{2}$) of each figure.



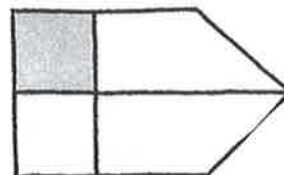
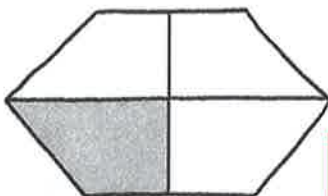
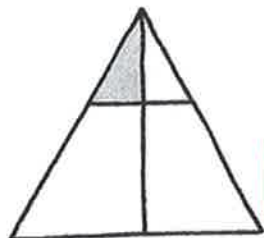
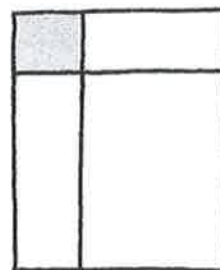
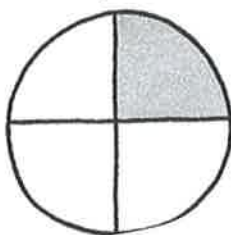
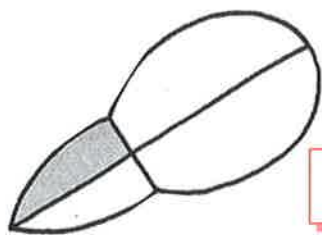
Quarters



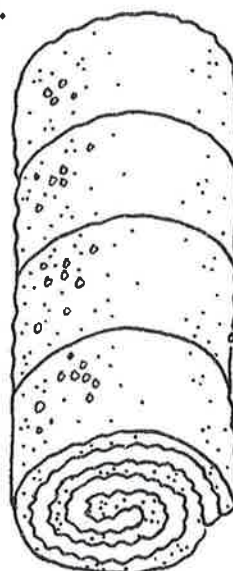
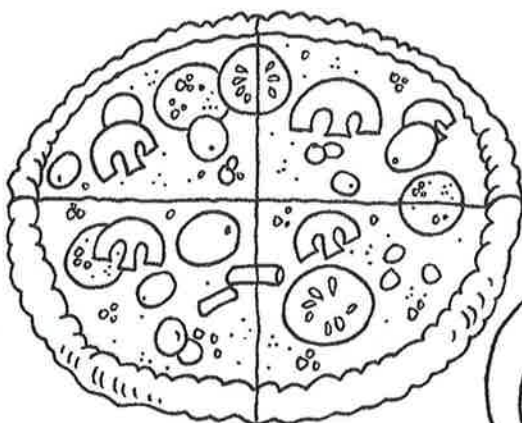
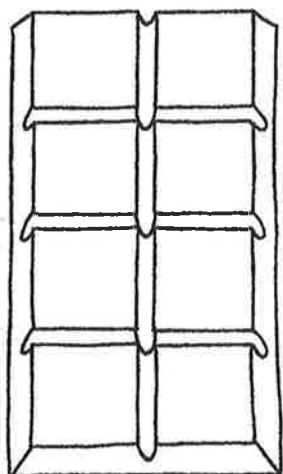
Colour one quarter ($\frac{1}{4}$) of each shape.



Write a ✓ in the box if $\frac{1}{4}$ of the figure is shaded and a ✕ if less than $\frac{1}{4}$ is shaded.



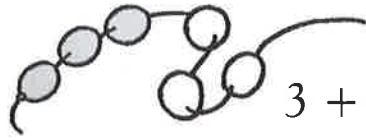
Colour one quarter ($\frac{1}{4}$) of each picture.





Adding up

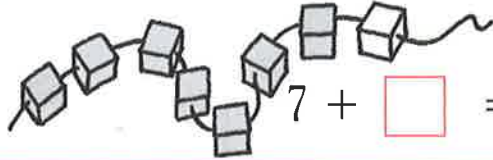
Fill in the missing numbers, and add.



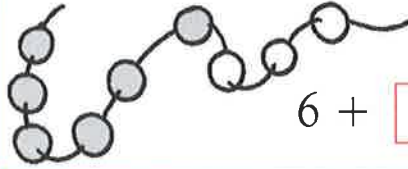
$$3 + 3 = 6$$



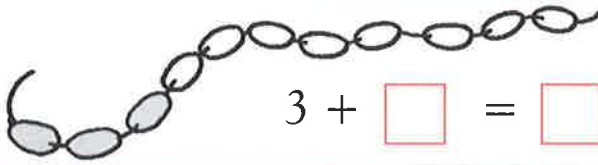
$$4 + 4 = \square$$



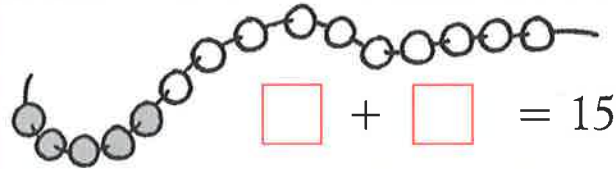
$$7 + \square = \square$$



$$6 + \square = \square$$

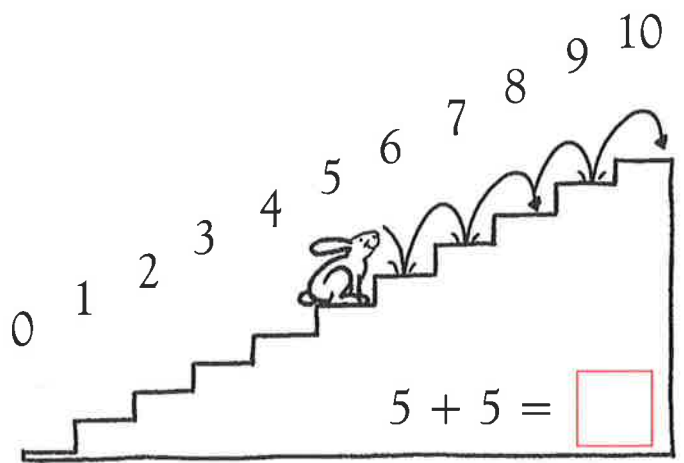
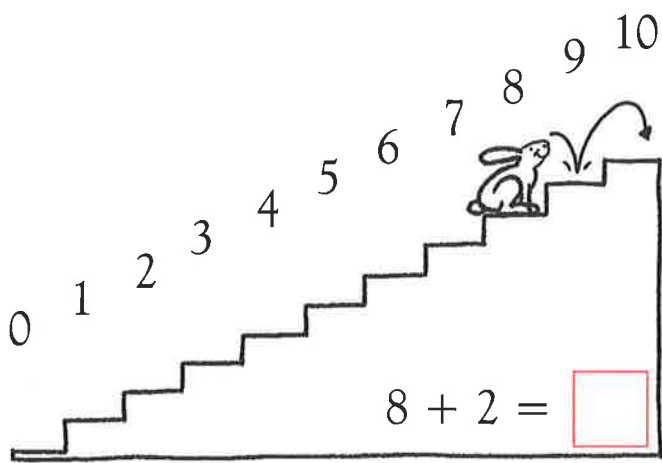
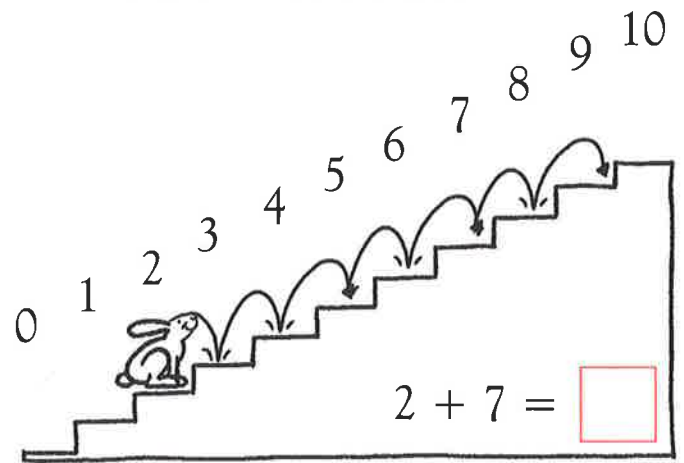
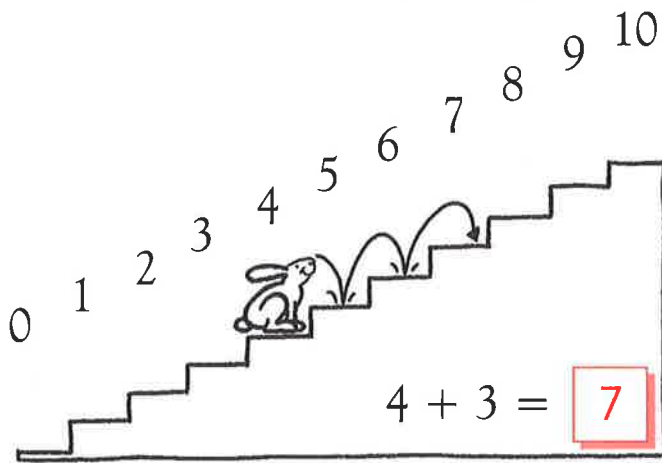


$$3 + \square = \square$$



$$\square + \square = 15$$

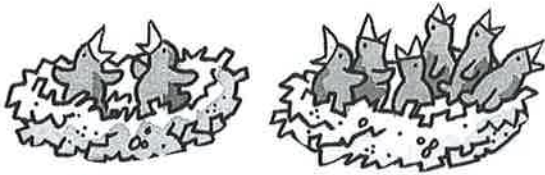
Count on to find out on which step the rabbit stops.



Adding animals



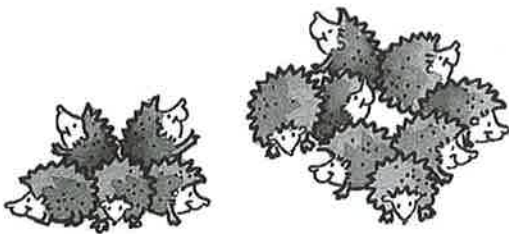
Count and add the animals, and then write the new number.



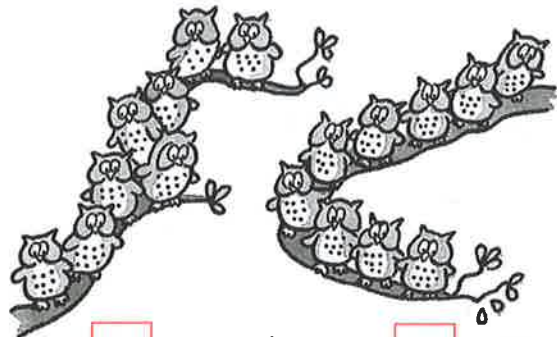
$$\boxed{2} + \boxed{6} = \boxed{8}$$



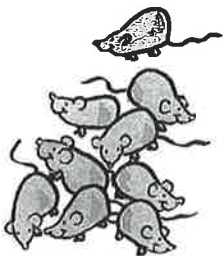
$$\boxed{} + \boxed{} = \boxed{}$$



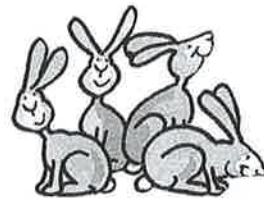
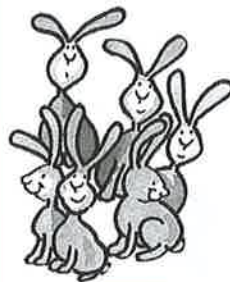
$$\boxed{} + \boxed{} = \boxed{}$$



$$\boxed{} + \boxed{} = \boxed{}$$



$$\boxed{} + \boxed{} = \boxed{}$$



$$\boxed{} + \boxed{} = \boxed{}$$

Fill in the missing numbers in the equations.

$$7 + 4 = \boxed{11}$$

$$3 + \boxed{} = 12$$

$$6 + 6 = \boxed{}$$

$$9 + 5 = \boxed{}$$

$$2 + 8 = \boxed{}$$

$$3 + 11 = \boxed{}$$

$$9 + 3 = \boxed{}$$

$$6 + \boxed{} = 10$$

$$13 + \boxed{} = 17$$

$$2 + \boxed{} = 5$$

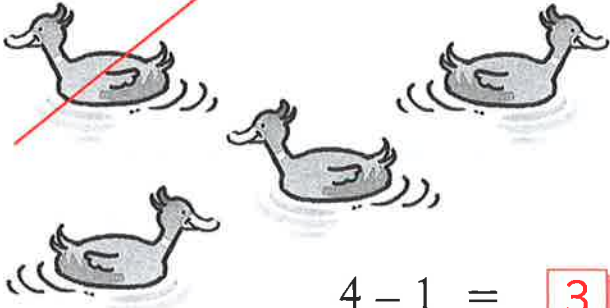
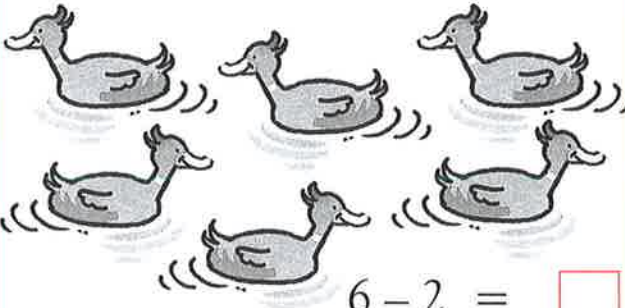
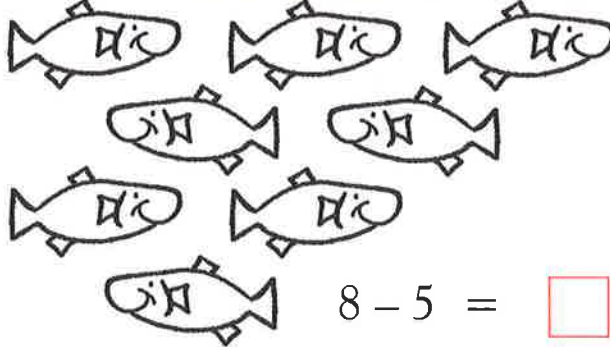
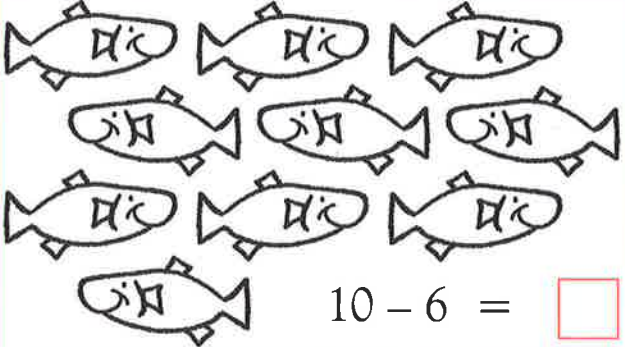
$$16 + \boxed{} = 16$$

$$15 + \boxed{} = 19$$

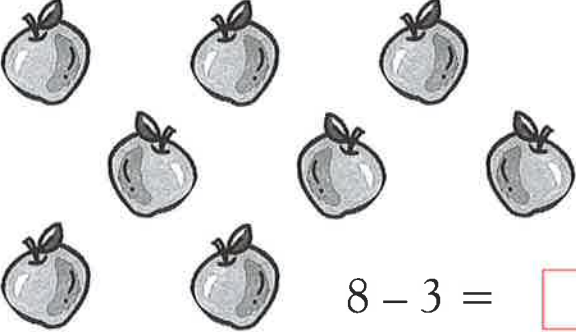
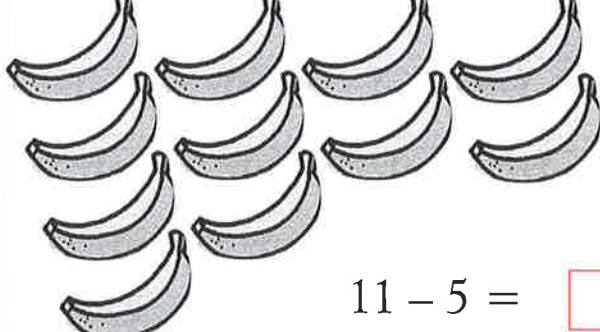
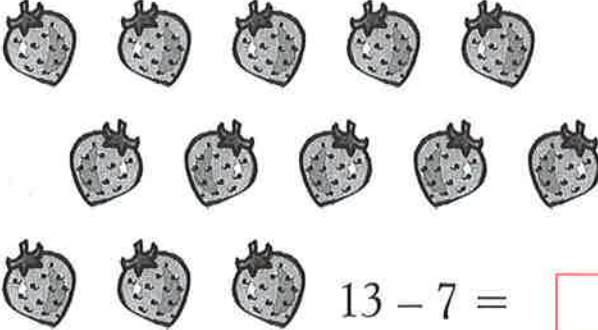
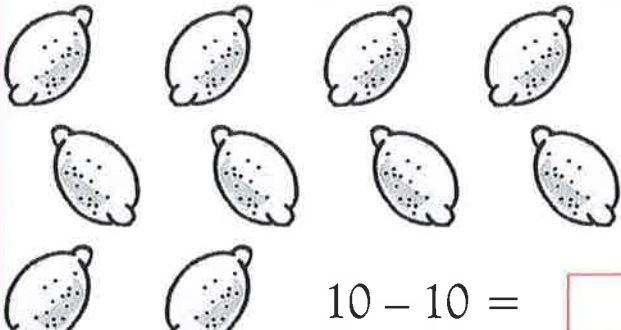


Subtracting

Cross out the correct number of animals, and fill in the answers.


$$4 - 1 = \boxed{3}$$

$$6 - 2 = \boxed{}$$

$$8 - 5 = \boxed{}$$

$$10 - 6 = \boxed{}$$

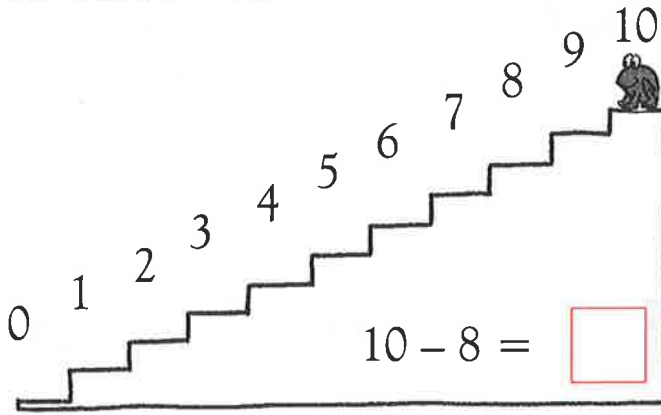
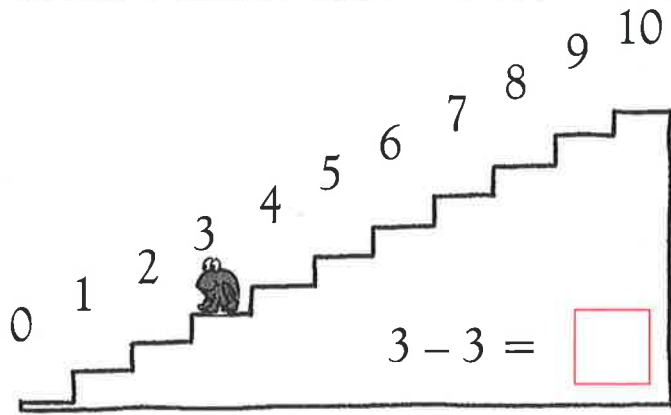
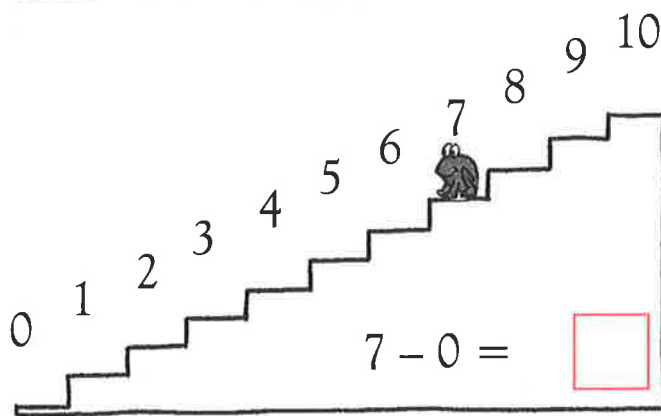
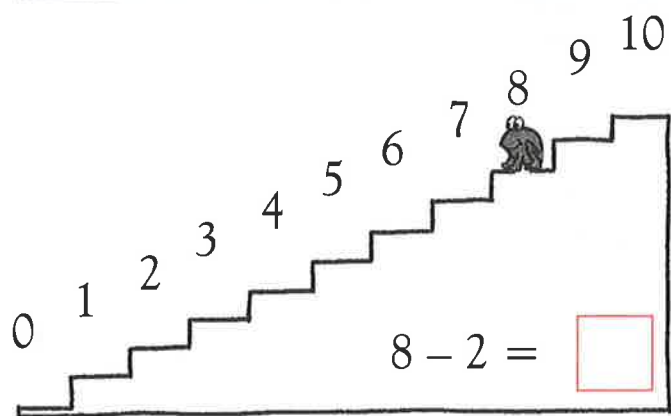
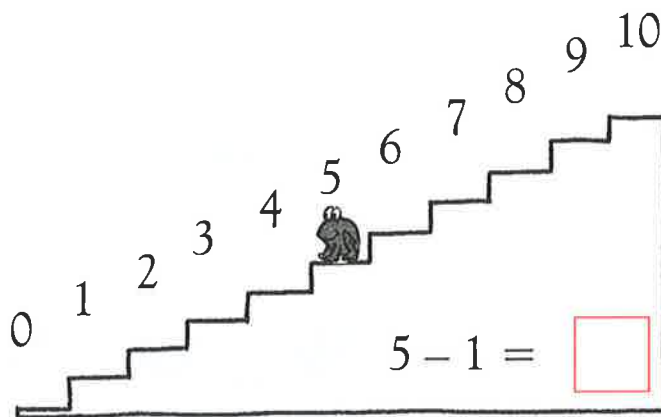
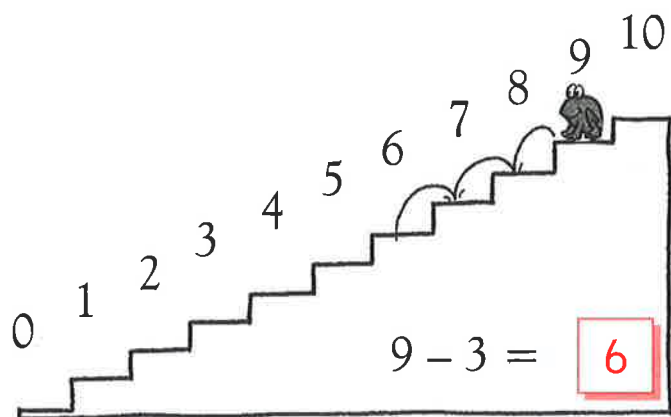
Cross out the correct number of fruits, and fill in the answers.


$$8 - 3 = \boxed{}$$

$$11 - 5 = \boxed{}$$

$$13 - 7 = \boxed{}$$

$$10 - 10 = \boxed{}$$

Counting back



Count back to find out on which step the frog stops.



Write the missing numbers in the boxes.

$3 - 3 =$

$20 - 10 =$

$9 -$ $= 6$

$15 -$ $= 5$

$5 - 4 =$

$8 - 8 =$

$5 -$ $= 0$

$20 -$ $= 4$

$15 - 4 =$

$19 - 9 =$

$6 -$ $= 2$

$18 -$ $= 11$

$10 - 9 =$

$16 - 9 =$

$10 -$ $= 4$

$13 -$ $= 10$

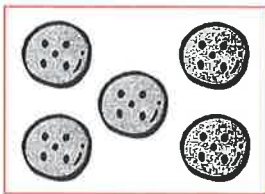
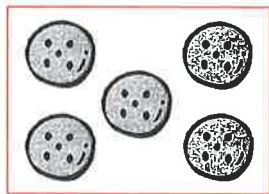


Sets

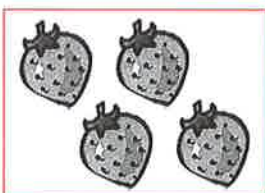
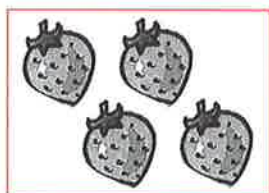
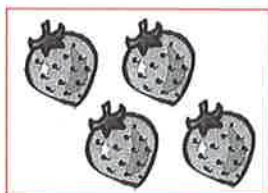
Write the missing numbers in the boxes.



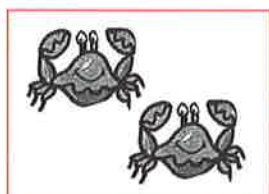
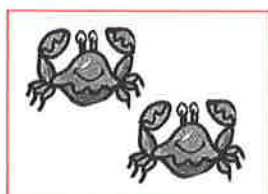
$$2 \text{ sets of } 3 = 6$$



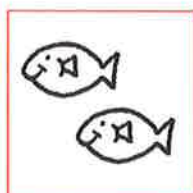
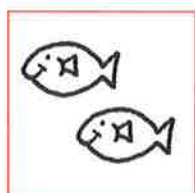
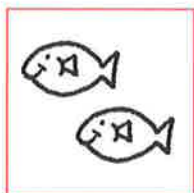
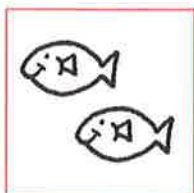
$$2 \text{ sets of } 5 = \square$$



$$3 \text{ sets of } 4 = \square$$



$$\square \text{ sets of } 2 = \square$$

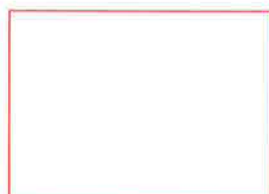


$$\square \text{ sets of } 2 = \square$$

Draw pictures in the boxes to match the equations.



$$3 \text{ sets of } 3 = 9$$



$$2 \text{ sets of } 4 = 8$$

Money



Which coin?



Penny



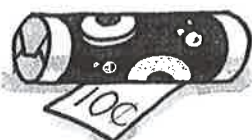
Nickel



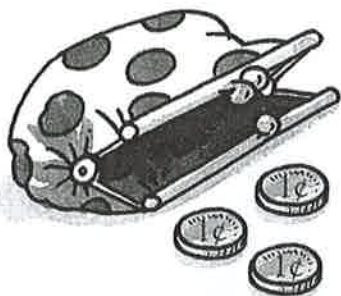
Dime



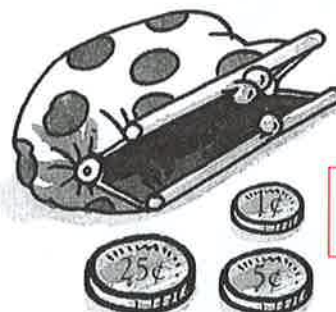
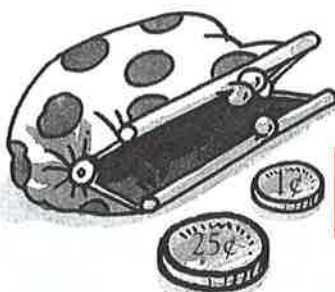
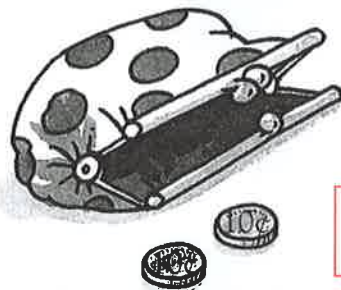
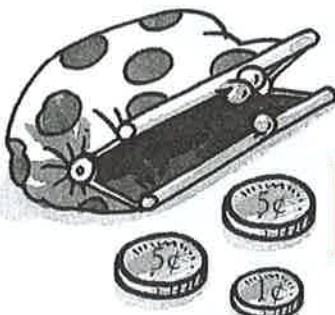
Quarter



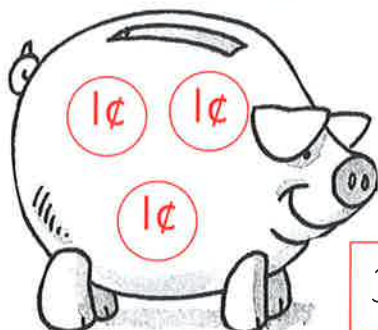
How much?



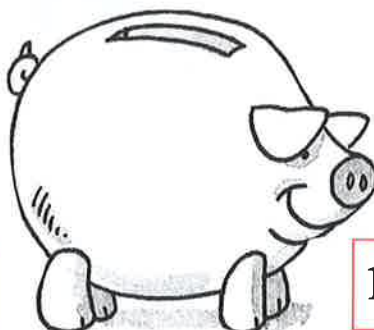
3¢



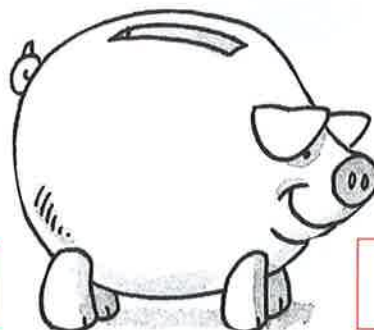
Put the correct change in the piggy bank.



3¢



11¢



7¢



Ordering stories

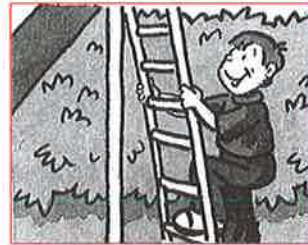
Which happens 1st, 2nd, and 3rd?



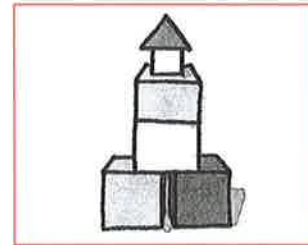
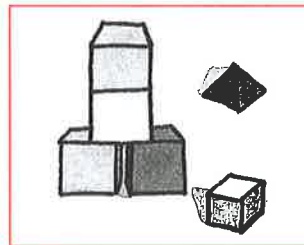
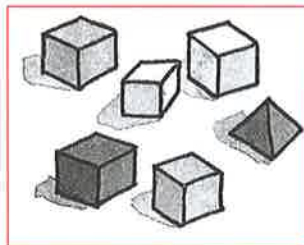
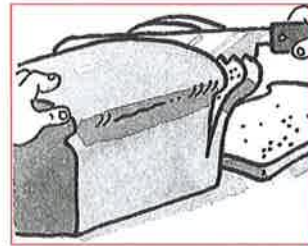
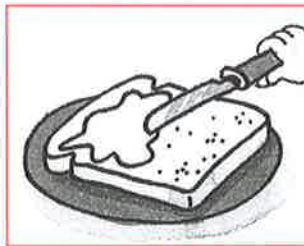
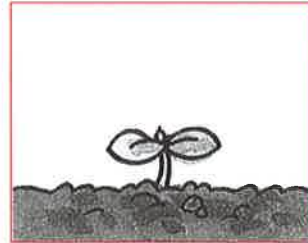
2nd



3rd



1st



Match the pictures to the order in which they happened.



4th

2nd

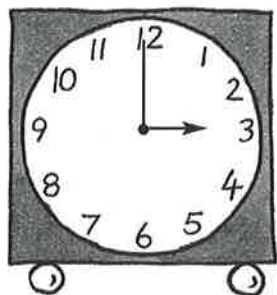
1st

3rd

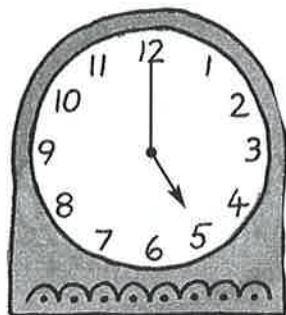
Time



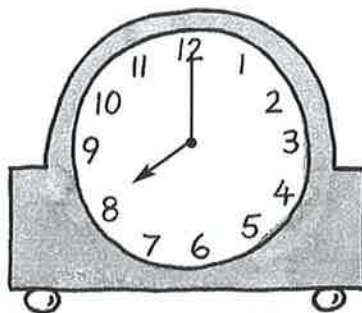
Write the time in each box.



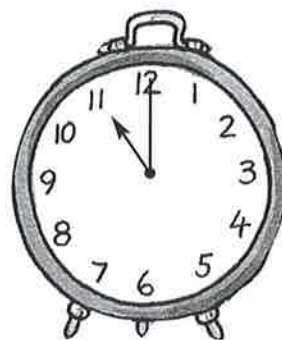
o'clock



o'clock

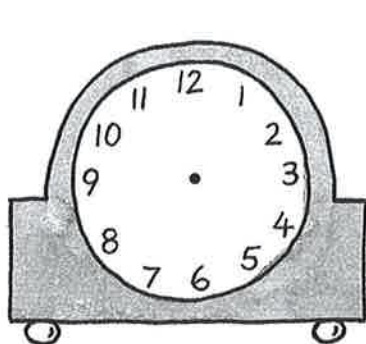


o'clock

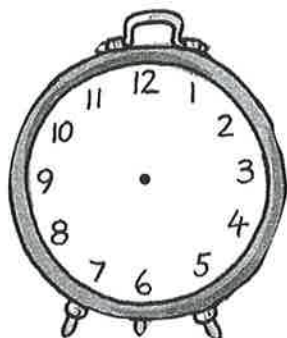


o'clock

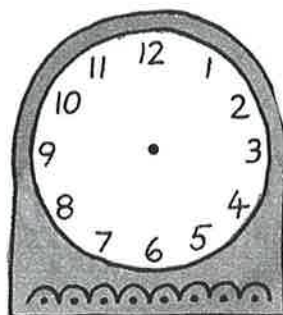
Draw the hands on the clock faces.



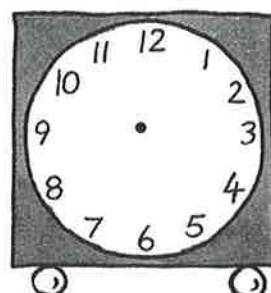
4 o'clock



10 o'clock

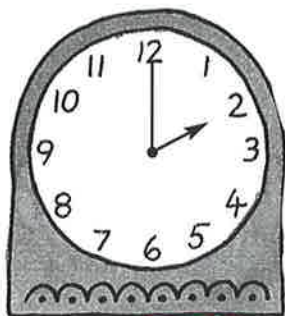


1 o'clock

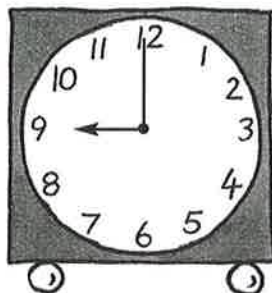


6 o'clock

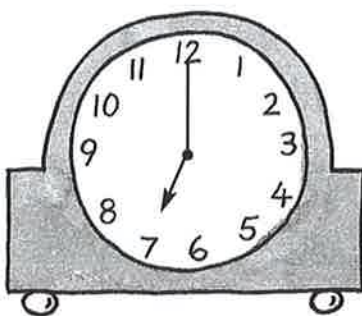
Match the times to the clocks.



12 o'clock



7 o'clock



2 o'clock

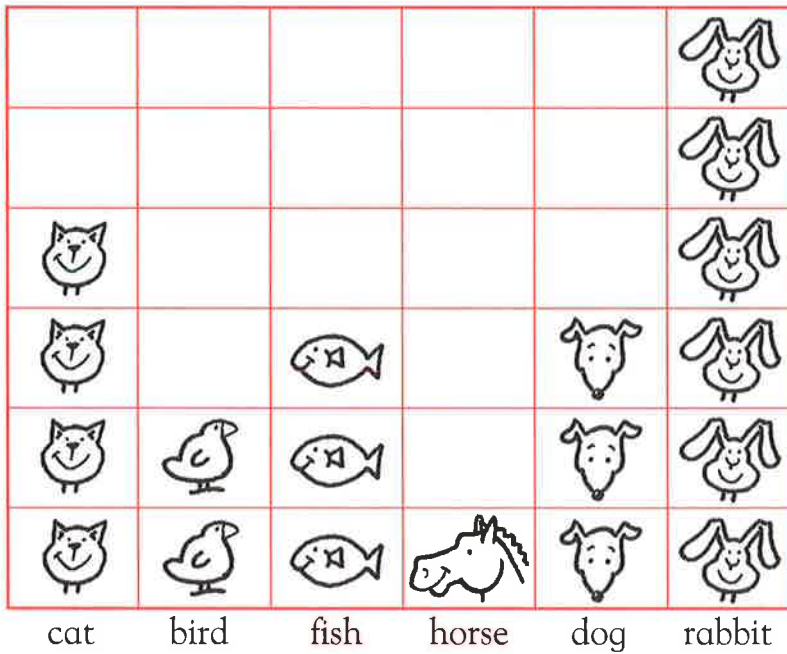


9 o'clock



Graphs

Number of pets



cat

bird

fish

horse

dog

rabbit

Pets

How many pets?



4











Draw the pet that matches the number.

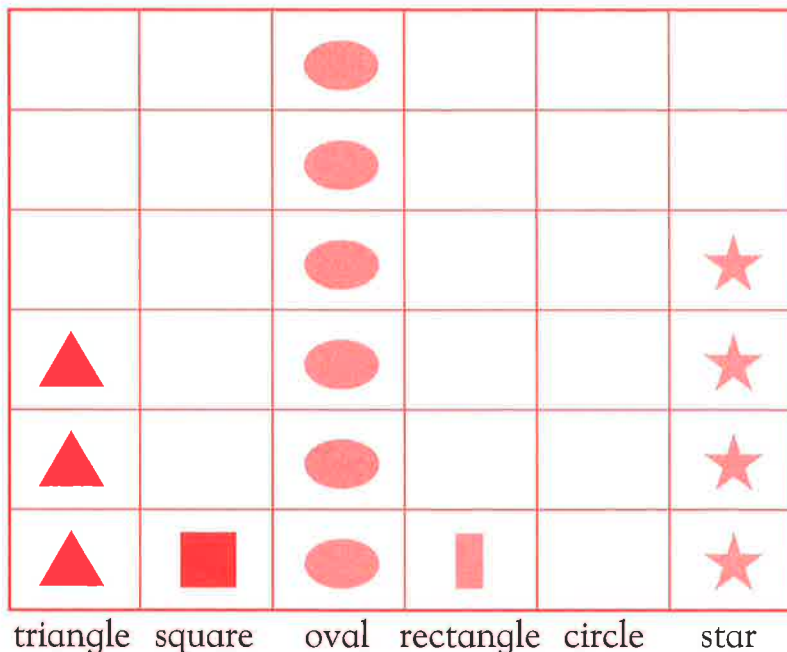
6



2

1

Number of shapes



triangle

square

oval

rectangle

circle

star

Shapes

How many shapes?













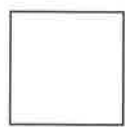
Which shape matches each number?

4

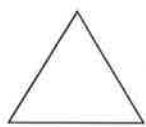
0

3

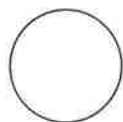
2-dimensional shapes



= yellow



= green

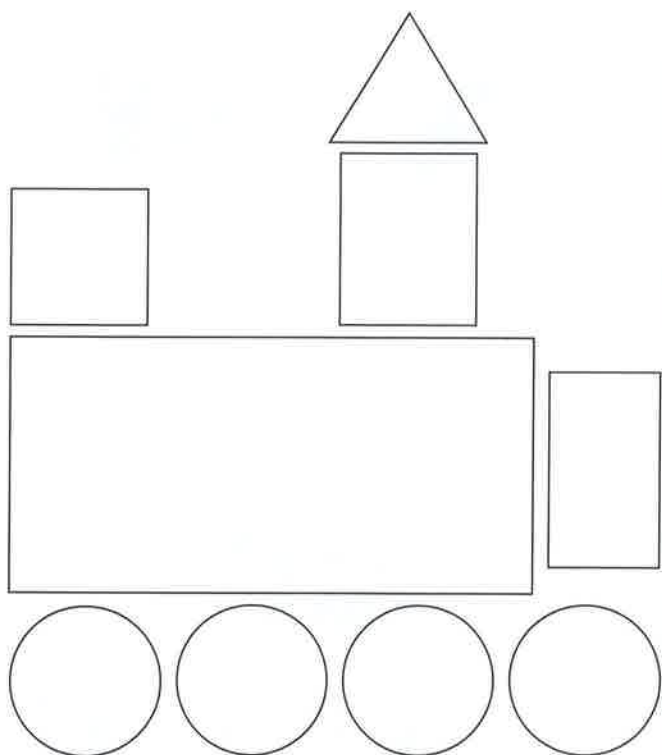


= purple

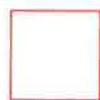
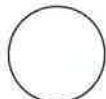


= blue

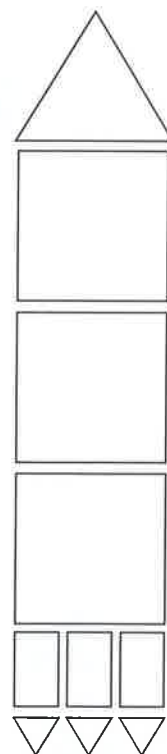
Colour the shapes.



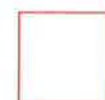
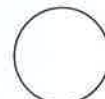
How many?



Colour the shapes.

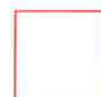
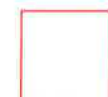
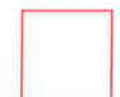
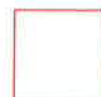
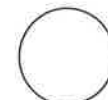


How many?



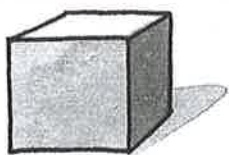
Draw a picture using the shapes shown on this page.

How many?

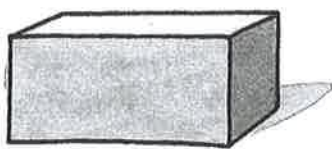




3-dimensional shapes



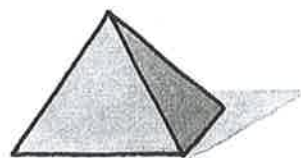
cube



prism

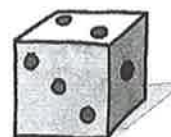
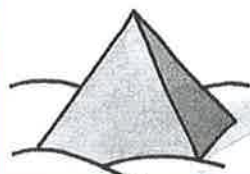


sphere



pyramid

Match the shapes to the names.



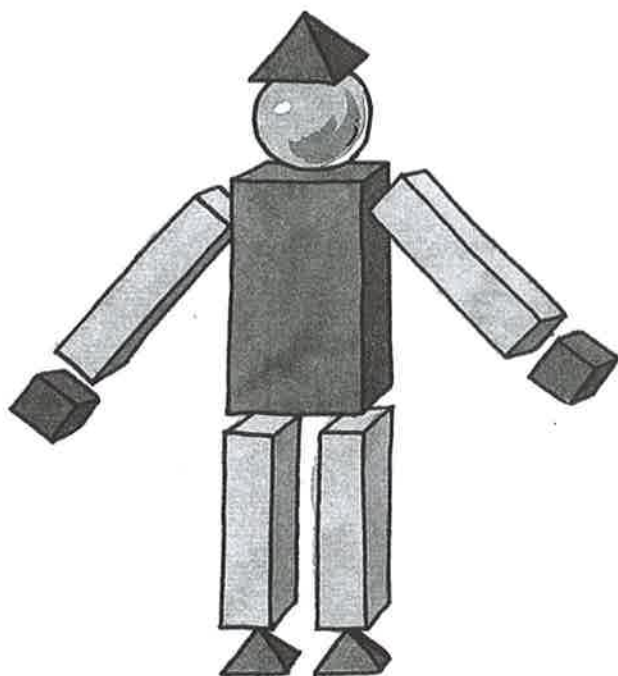
pyramid

sphere

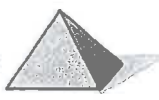
cube

prism

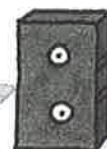
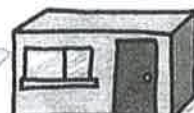
How many?



2



How many?



Writing numbers



Count, write, and say the number of letters.



9

nine



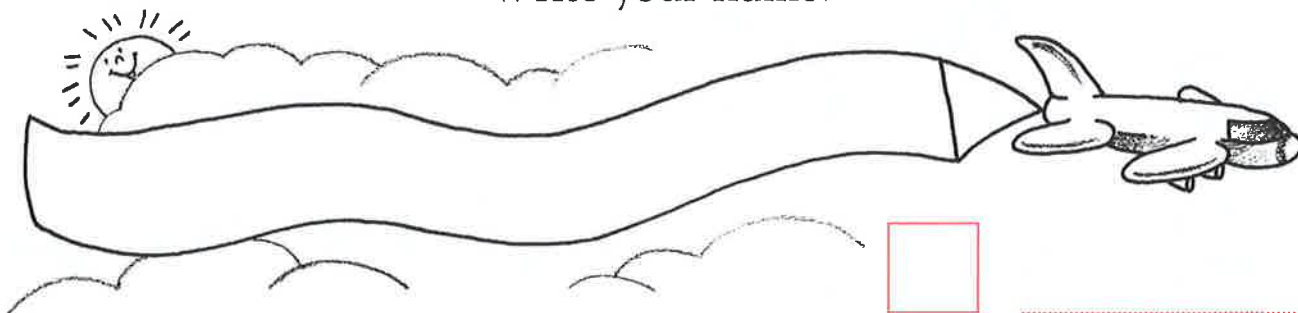




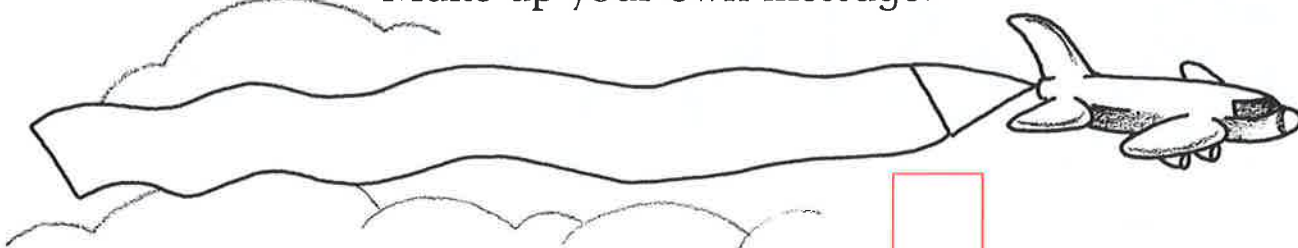




Write your name.



Make up your own message.





Counting

Write the missing numbers.



Counting on by 2s

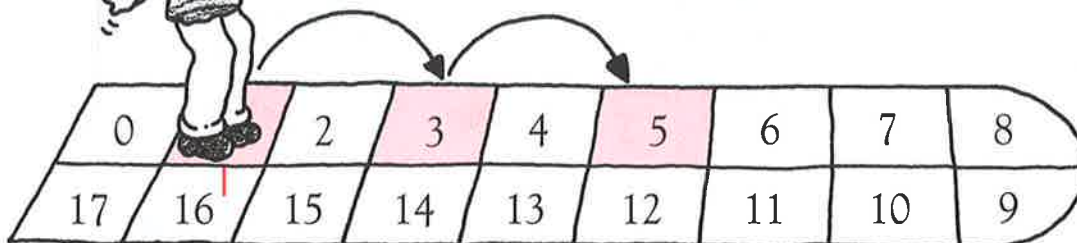
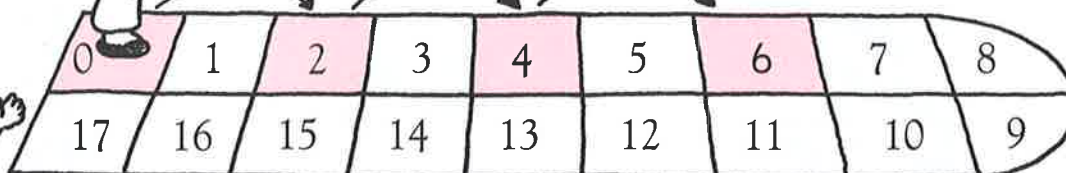


Hop by 2s. Colour the squares.

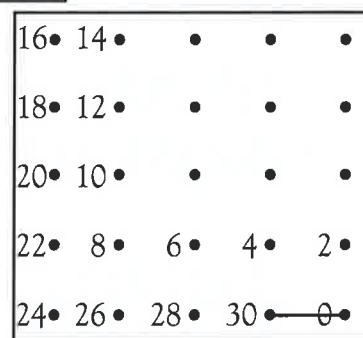
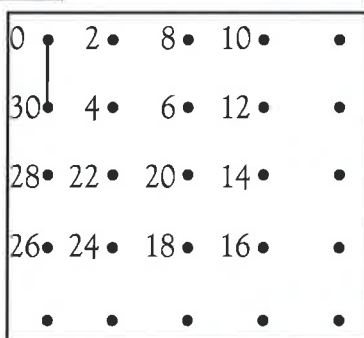
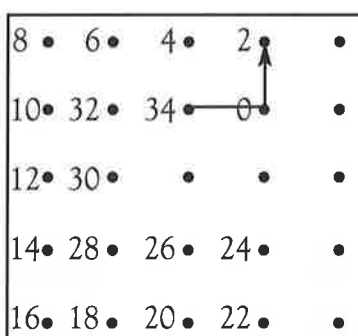
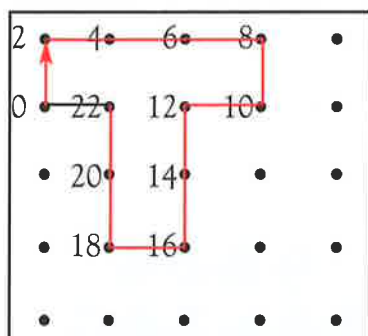
Elizabeth Even



Oliver Odd



What letters will you find? Say the numbers as you draw.



Write the numbers.

Even numbers

2 4 6

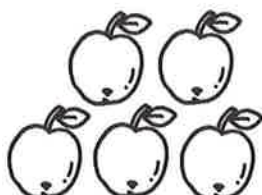
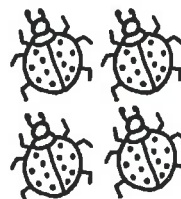
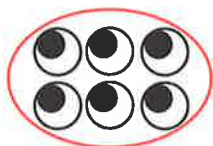
Odd numbers

1 3 5

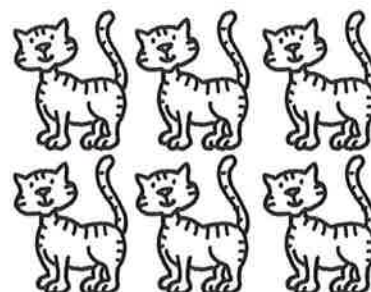
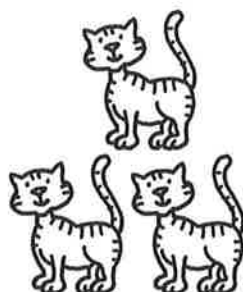
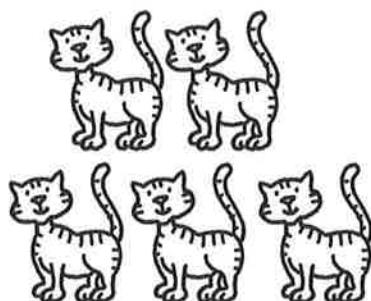
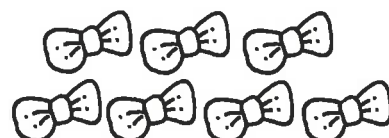
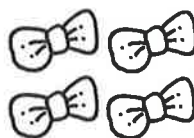
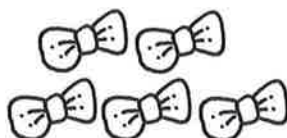


Most and least

Circle the set with the most items in it.



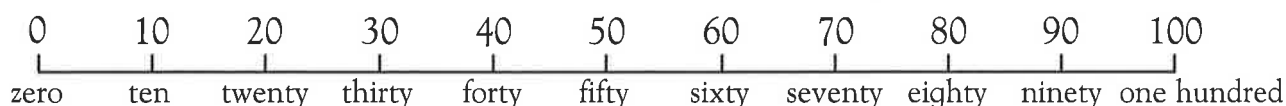
Circle the set with the least items in it.



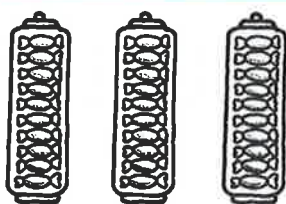
Counting by 10s



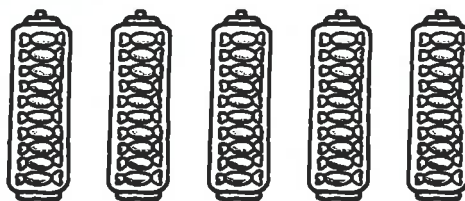
Use this number line to help you.



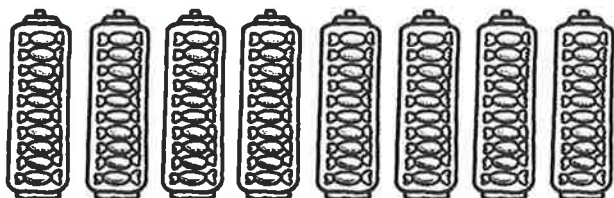
How many candies? Count, say, and write.



30 thirty

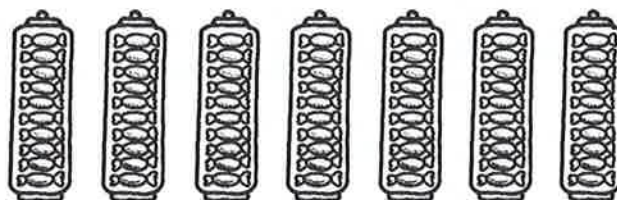
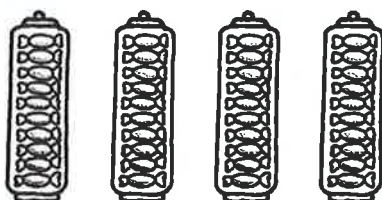


50



eighty

60



Put the numbers in the right order.

~~10~~ 60 100 50 ~~20~~ 70 90 30 40 80

10 20

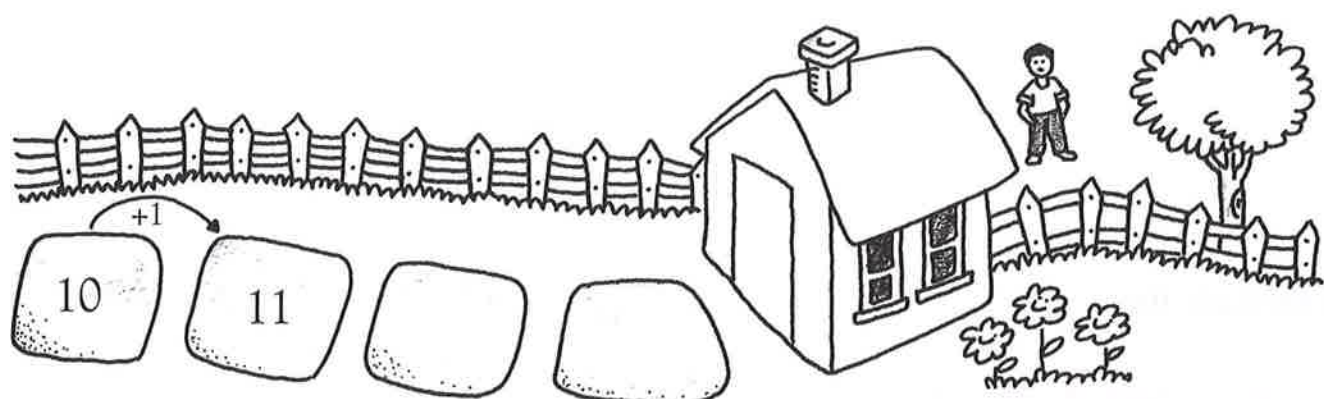
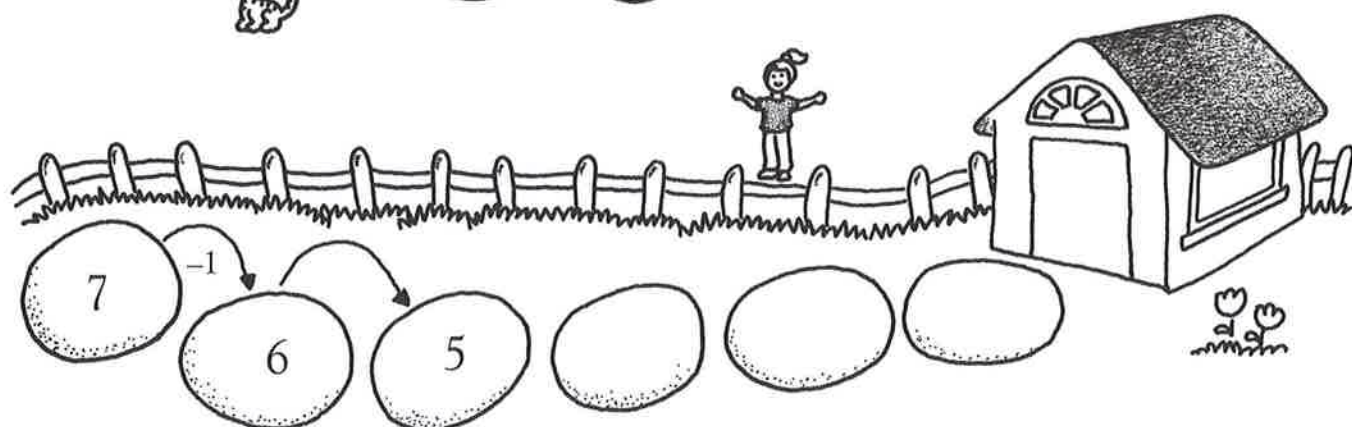
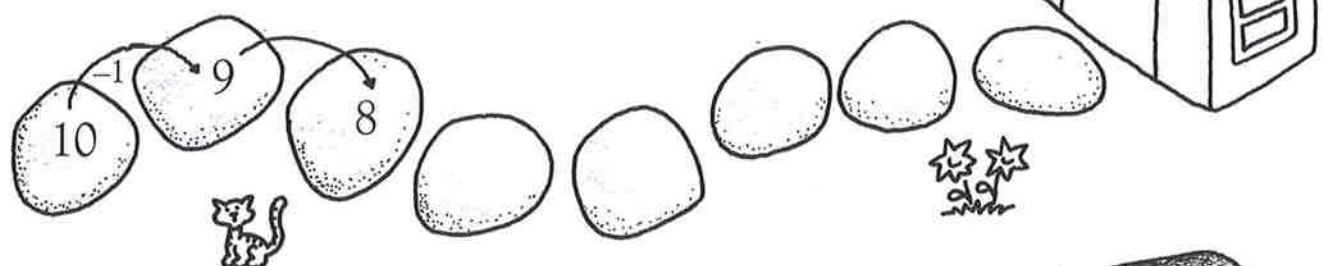
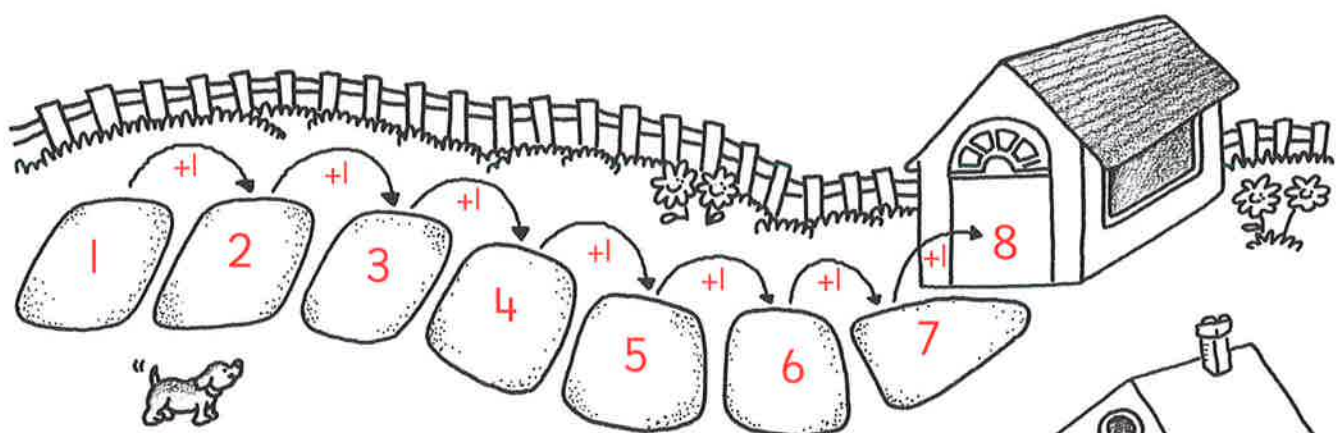
Greatest first

100 90 80



Counting forward or back

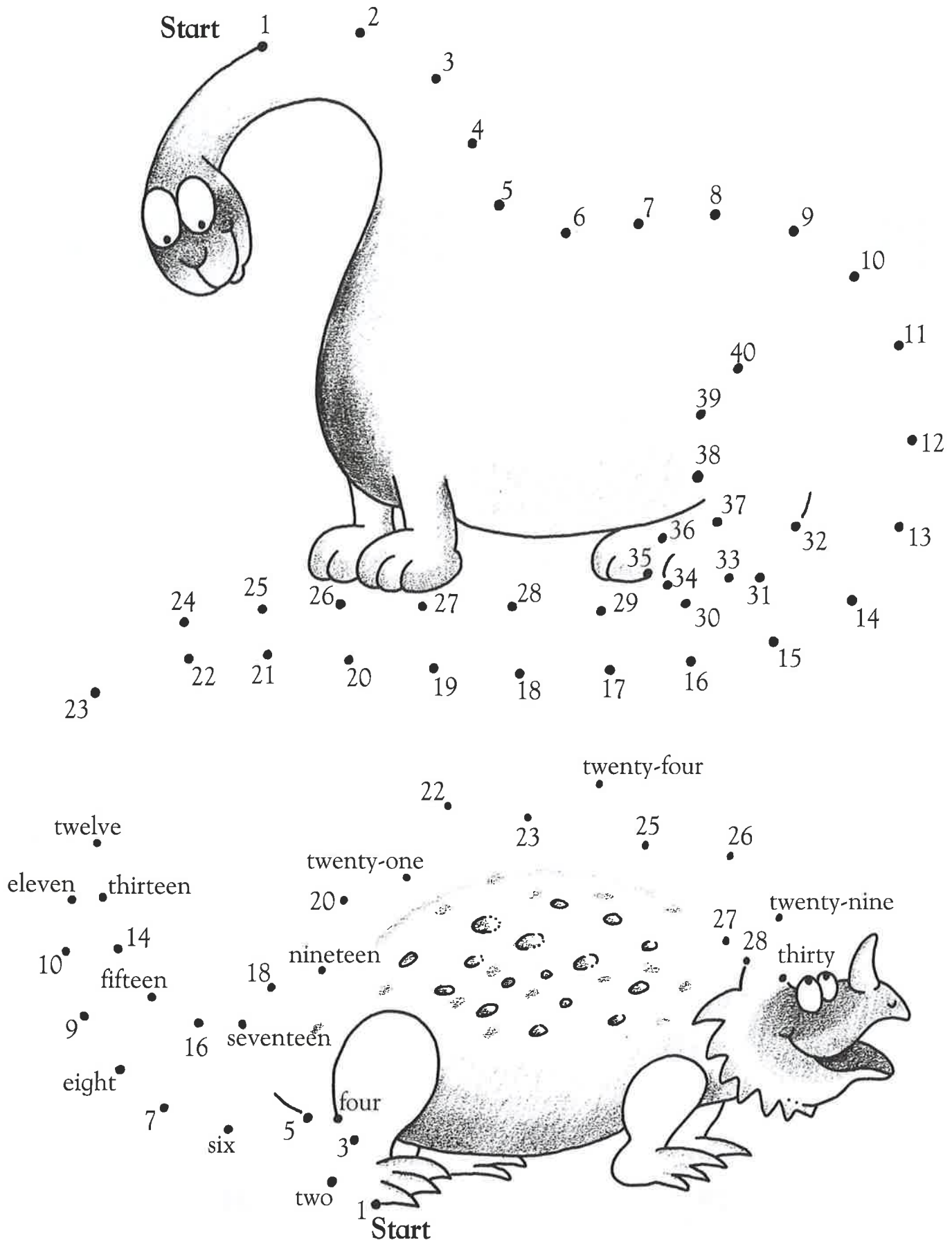
Draw pathways by writing the missing numbers.



Reading numbers



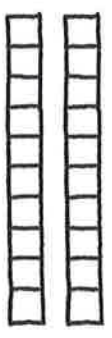

Connect the numbers, and complete the drawings.





Tens and ones



Write the tens and ones.

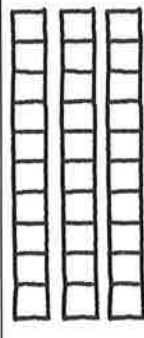
tens	ones
	

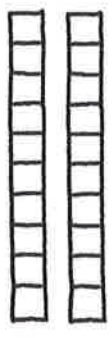

2

3

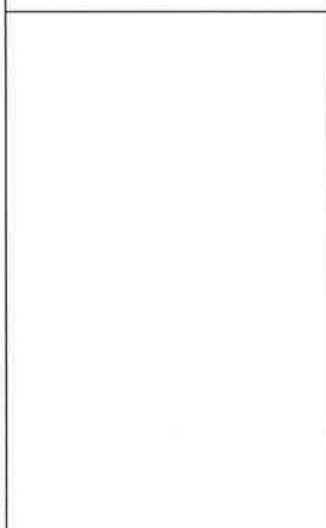

23

tens	ones
	

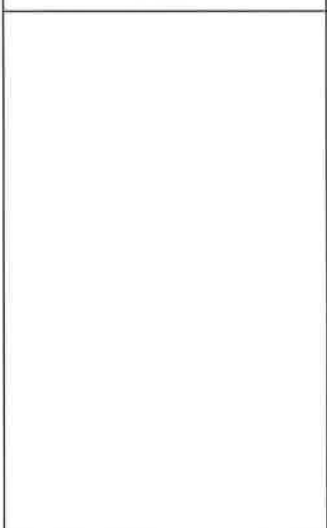
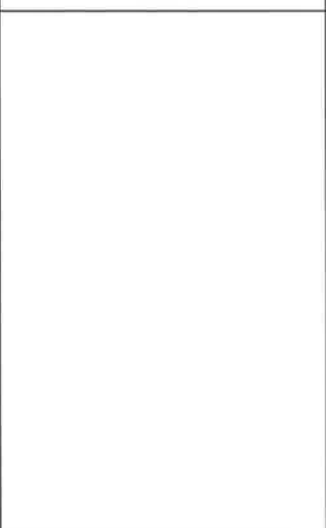
tens	ones
	

tens	ones
	

Draw and write the tens and ones.

tens	ones
	

29

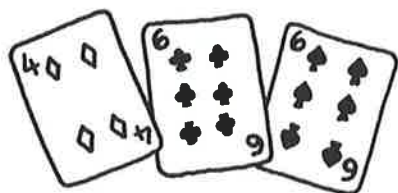
tens	ones
	

34

Comparisons



Add the values, and write *is greater than* or *is less than*.

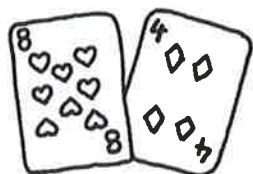


16

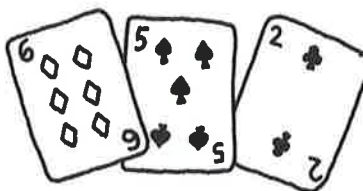
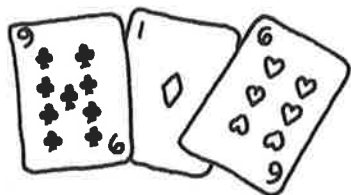
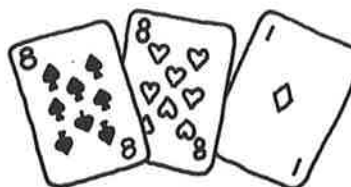
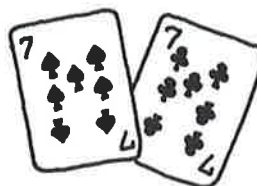
is greater than



9



12



Write the numbers that are 1 more, 1 less, or between.

1 less	between	1 more
20	21	22

1 less	number	1 more
	26	

number	between	number
19		21

1 less	number	1 more
	29	

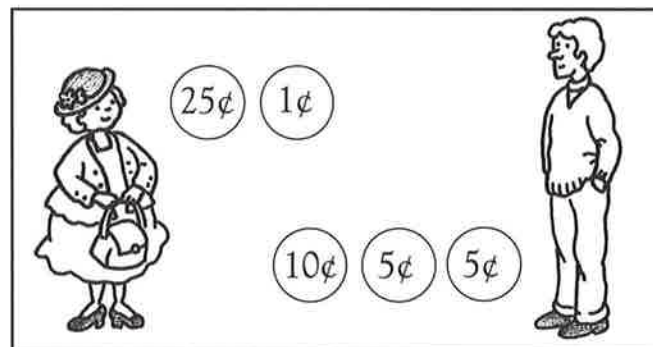
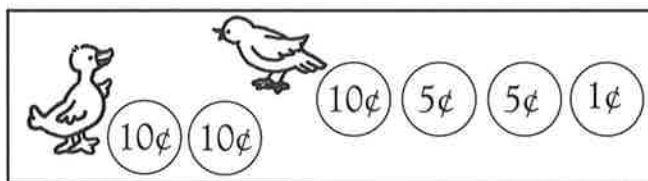
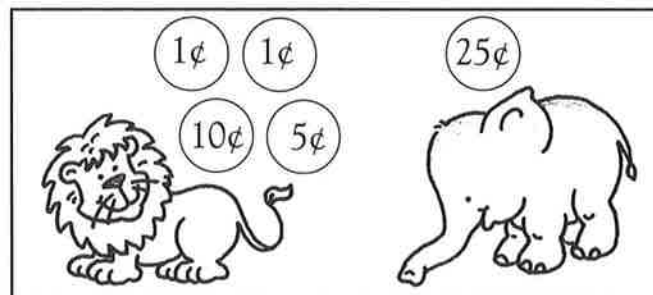
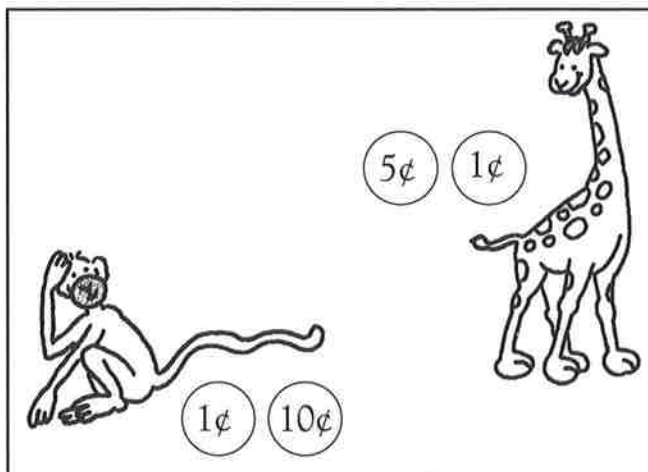
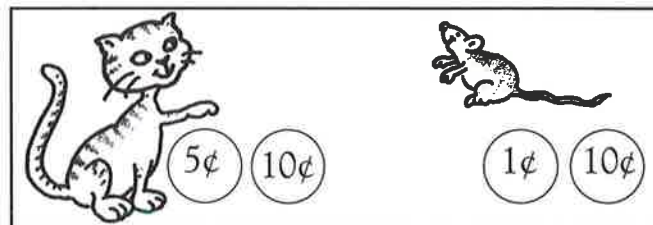
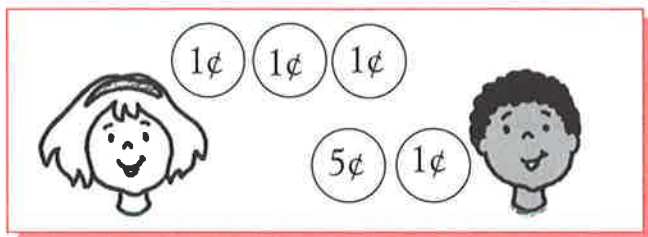
1 less	number	1 more
	11	

number	between	number
30		32

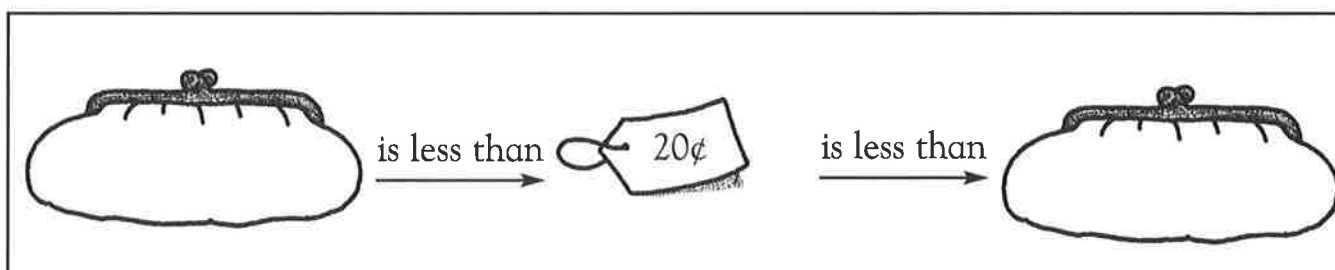
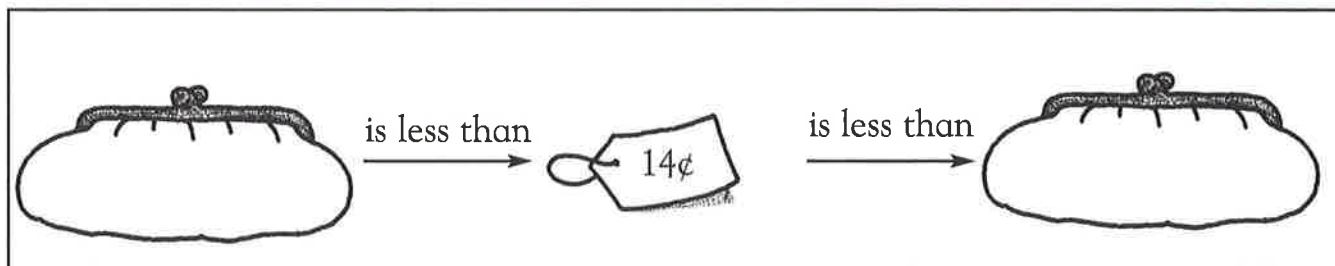
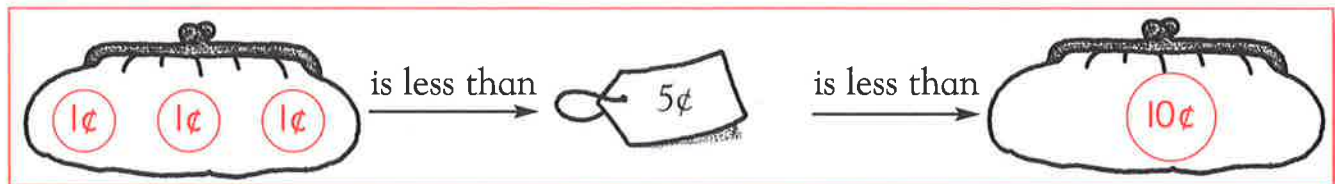


Comparing money

Colour the one who has the most money.



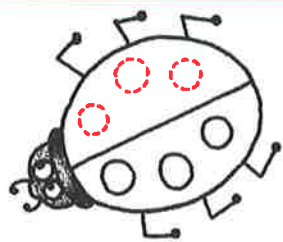
Draw some coins in the purses.



Spot the doubles

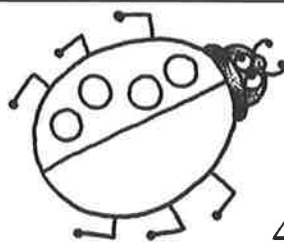


Draw the missing spots and write the numbers.



$$3 + \boxed{3} = \boxed{6}$$

double 3 is



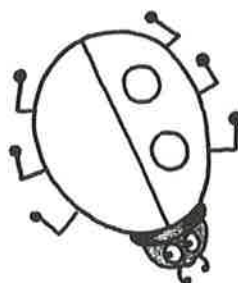
$$4 + \boxed{} = \boxed{}$$

double 4 is



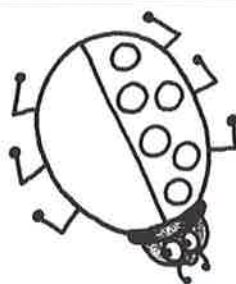
$$1 + \boxed{} = \boxed{}$$

double 1 is



$$2 + \boxed{} = \boxed{}$$

double 2 is



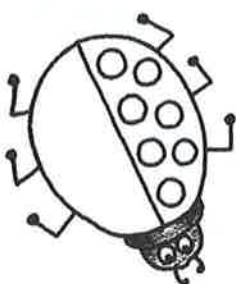
$$6 + \boxed{} = \boxed{}$$

double 6 is



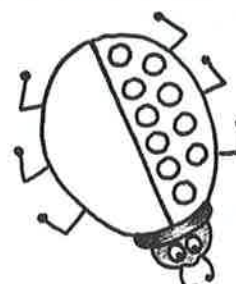
$$5 + \boxed{} = \boxed{}$$

double 5 is



$$7 + \boxed{} = \boxed{}$$

double 7 is



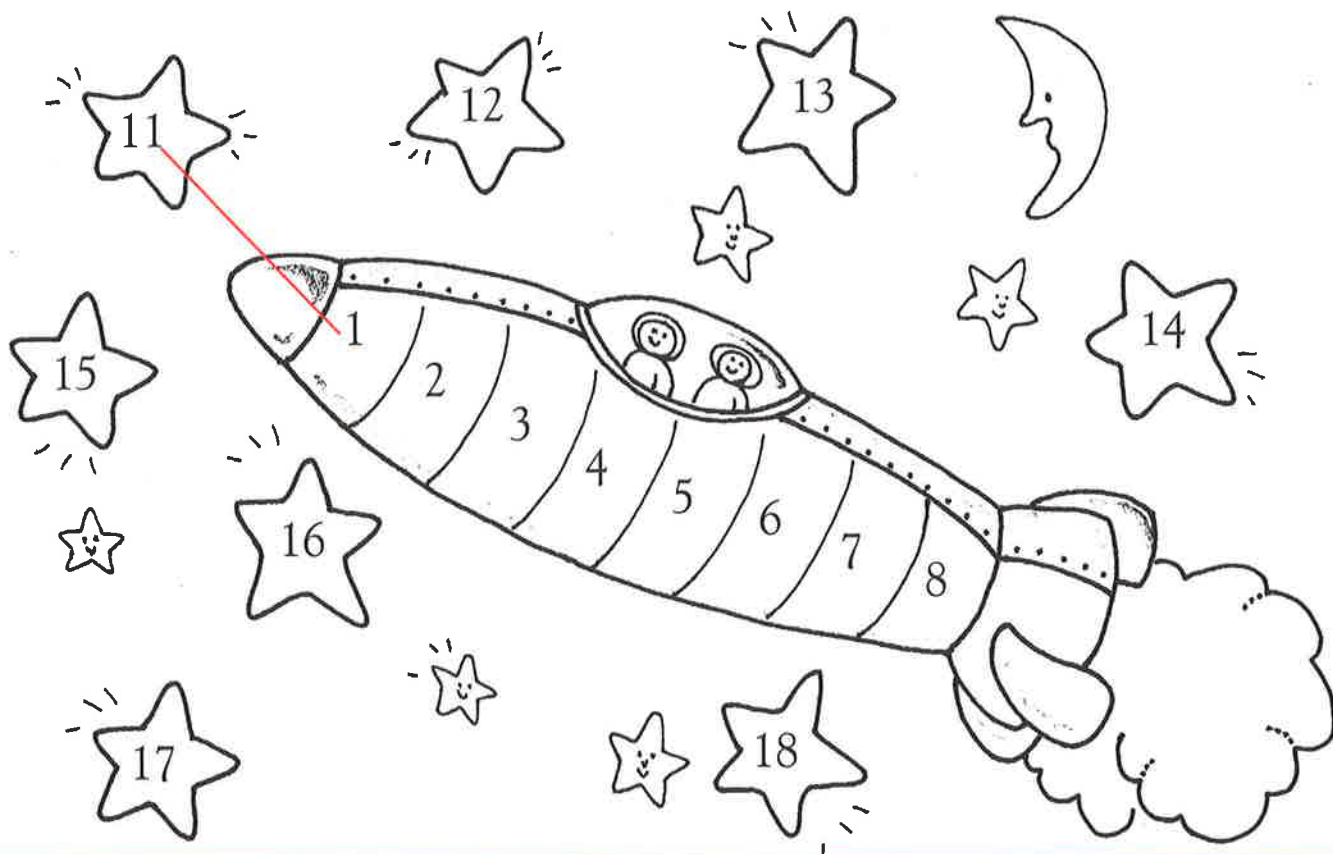
$$10 + \boxed{} = \boxed{}$$

double 10 is

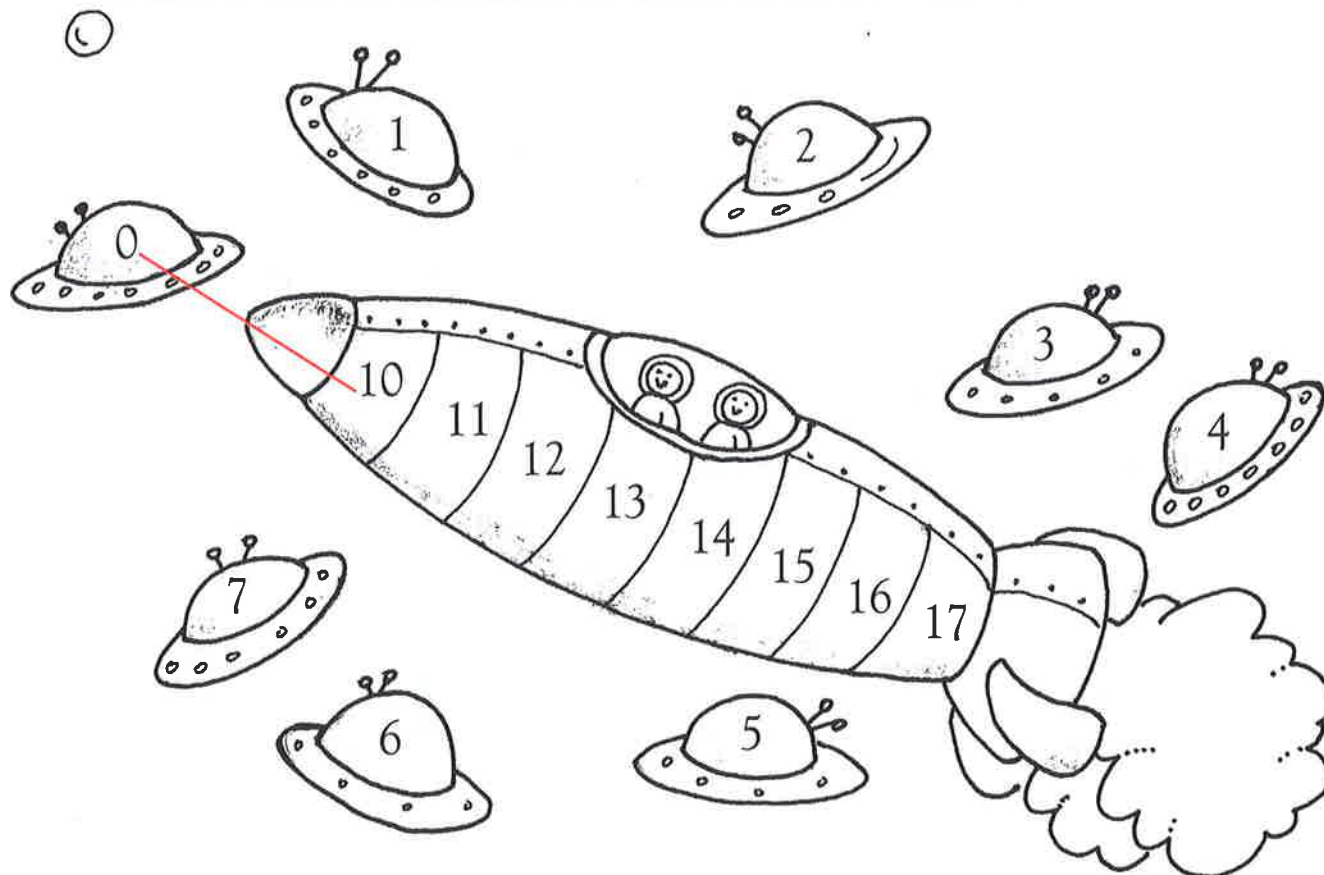


10 more or 10 less

Draw a line to add 10 to each number on the rocket.



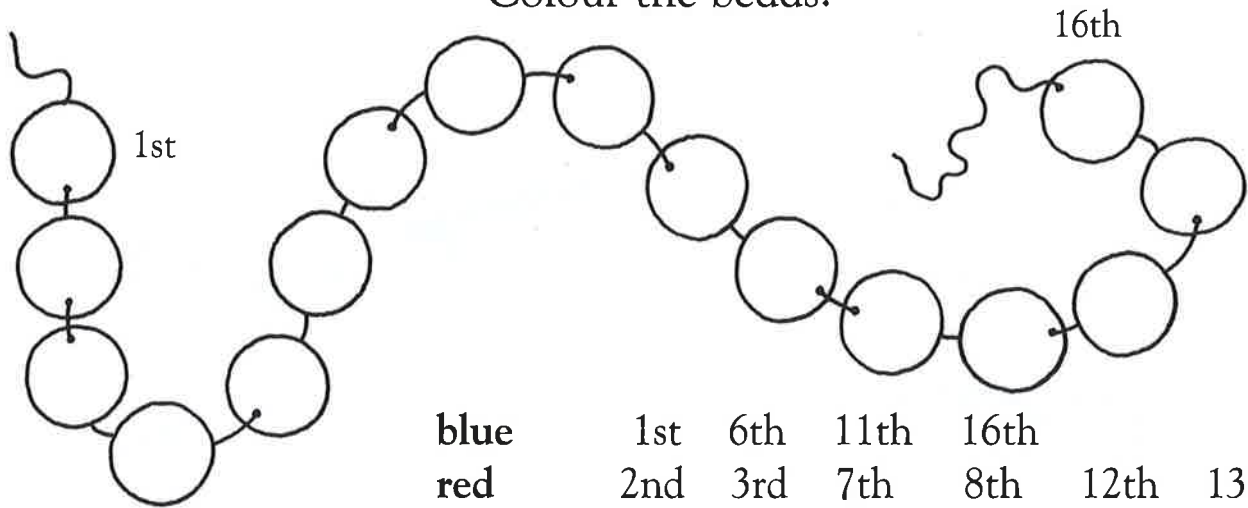
Draw a line to subtract 10 from each number on the rocket.



Ordinals

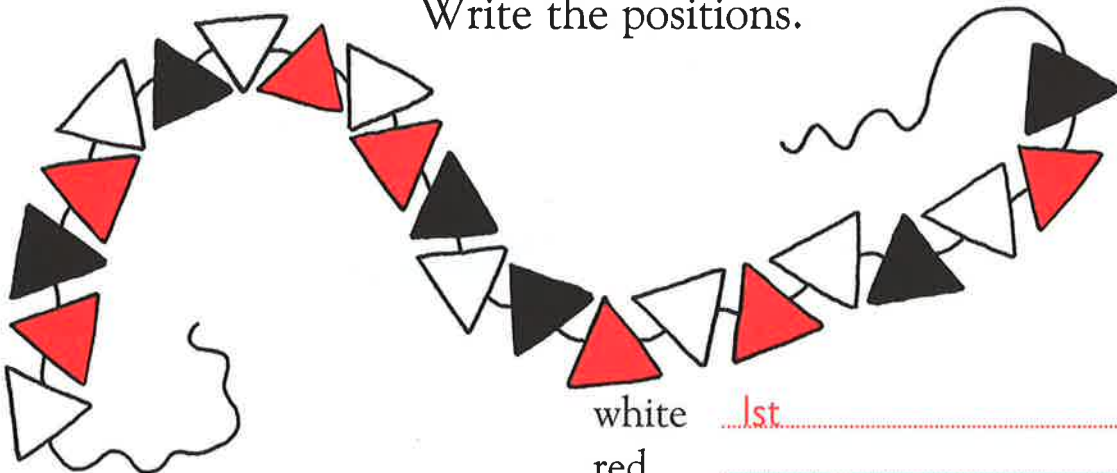


Colour the beads.



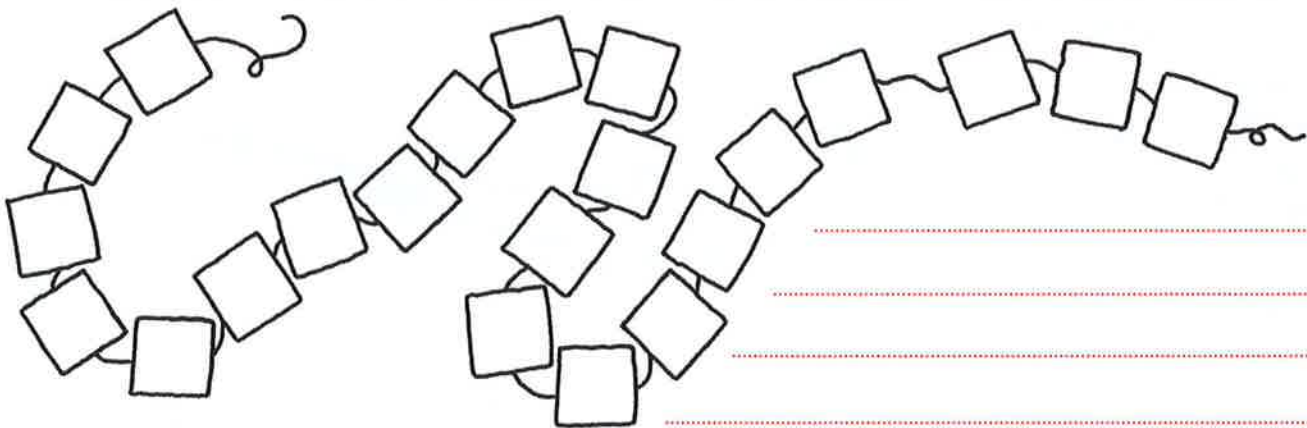
blue	1st	6th	11th	16th		
red	2nd	3rd	7th	8th	12th	13th
yellow	4th	5th	9th	10th	14th	15th

Write the positions.



white 1st
red
black

Choose 3 colours. Make your own pattern. Write the positions.

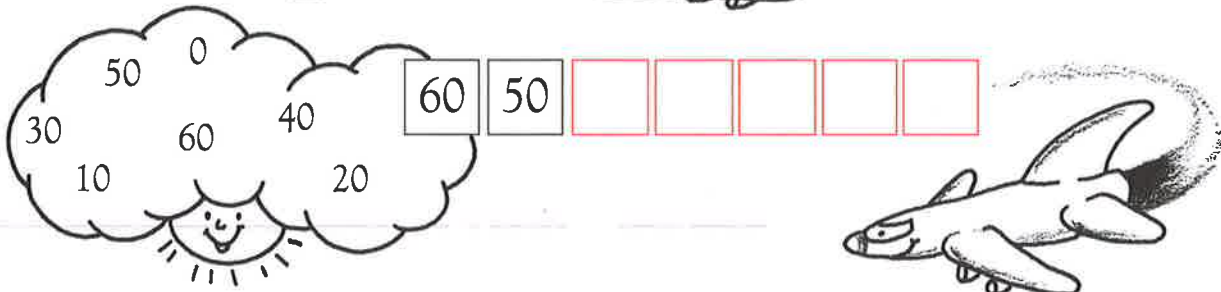
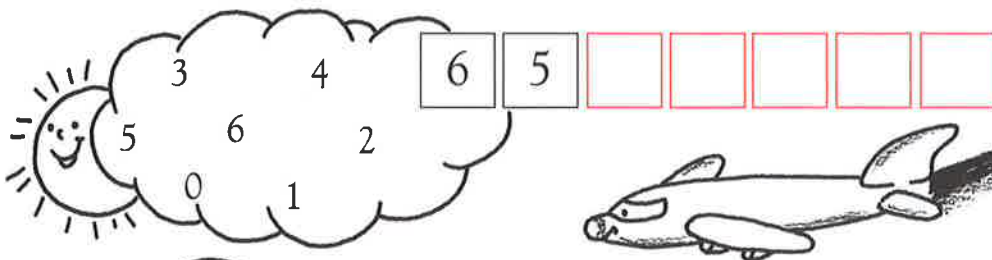
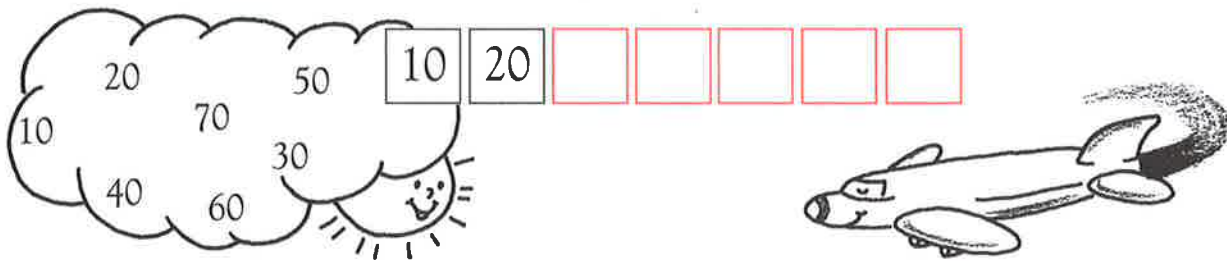
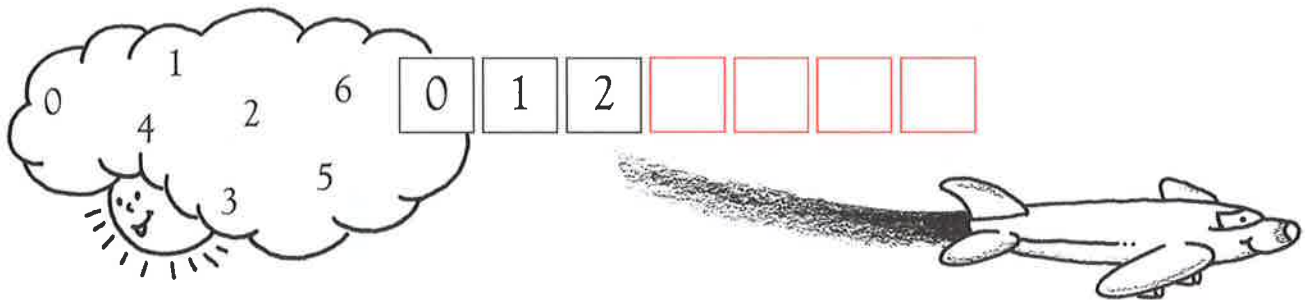
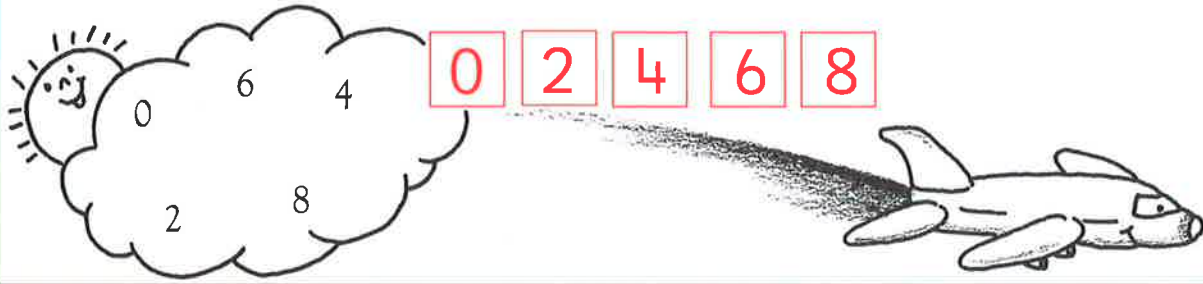


.....
.....
.....
.....
.....



Ordering

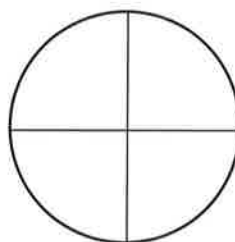
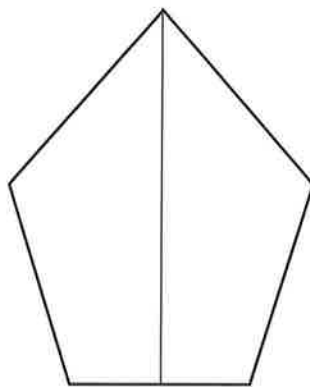
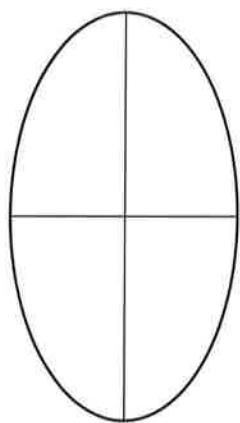
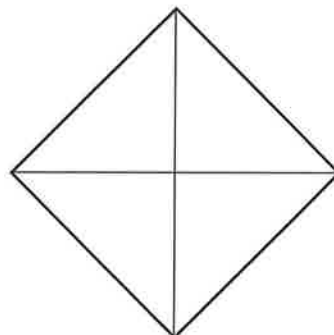
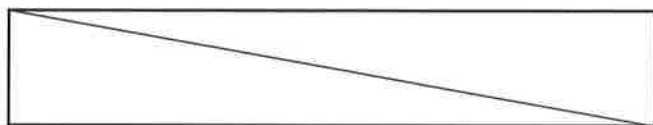
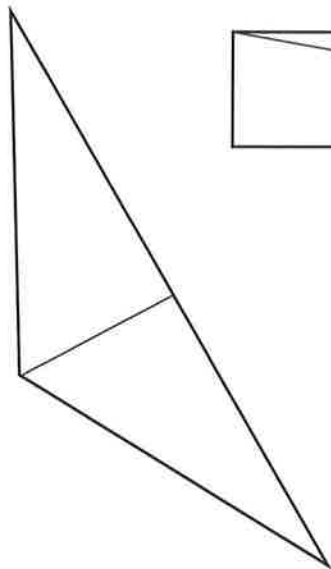
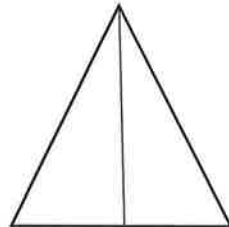
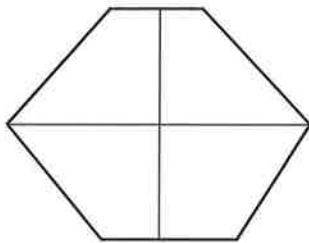
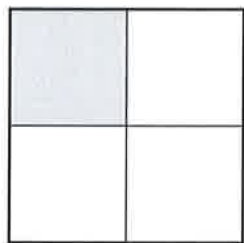
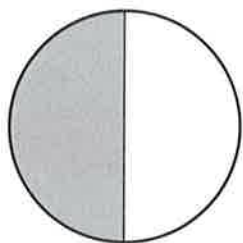
Look for a pattern. Write the numbers in order.



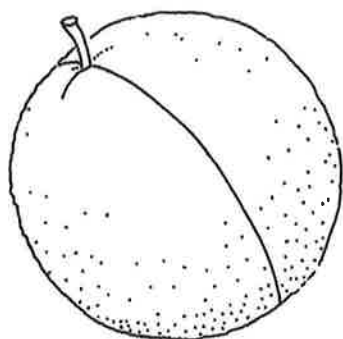
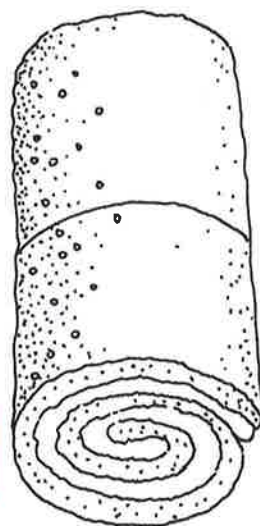
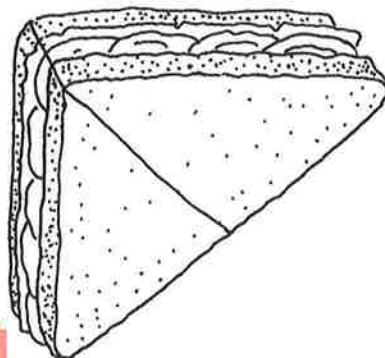
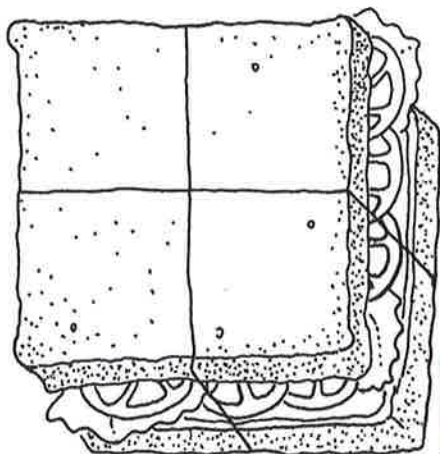
Halves and fourths



For each shape colour one half red or one fourth yellow.



Halves or fourths?





Place value

What is in the ones place in each number?

24

4

61

1

87

19

65

68

13

42

What is in the tens place in each number?

30

3

94

9

10

69

27

81

18

50

What is in the tens place in each number?

12

1

90

43

58

Circle the number that has a 7 in the tens place.

57

79

70

Circle the number that has a 3 in the ones place.

34

93

30

Circle the number that has a 1 in the tens place.

10

61

21

Expanded form



Write each number as a sum of tens and ones.

$54 = 50 + 4$

$12 = \square$

$88 = \square$

$47 = \square$

$29 = \square$

$11 = \square$

$75 = \square$

$51 = \square$

$44 = \square$

$62 = \square$

$93 = \square$

$19 = \square$

$25 = \square$

$74 = \square$

$36 = \square$

Write the missing number.

$80 + 6 = 86$

$90 + 7 = 97$

$\square + 3 = 33$

$\square + 1 = 61$

$10 + \square = 15$

$\square + 8 = 58$

$20 + \square = 22$

$70 + \square = 79$

$\square + 3 = 43$

$90 + \square = 94$



Adding dice

Count the dots on the dice.

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \boxed{9}$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 1 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 6 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} + \begin{array}{|c|} \hline 3 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} + \begin{array}{|c|} \hline 2 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} + \begin{array}{|c|} \hline 5 \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline 1 \\ \hline \end{array} + \begin{array}{|c|} \hline 6 \\ \hline \end{array} + \begin{array}{|c|} \hline 4 \\ \hline \end{array} = \boxed{}$$

Make your own dice problems. You can roll real dice to help.

$$\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \boxed{}$$

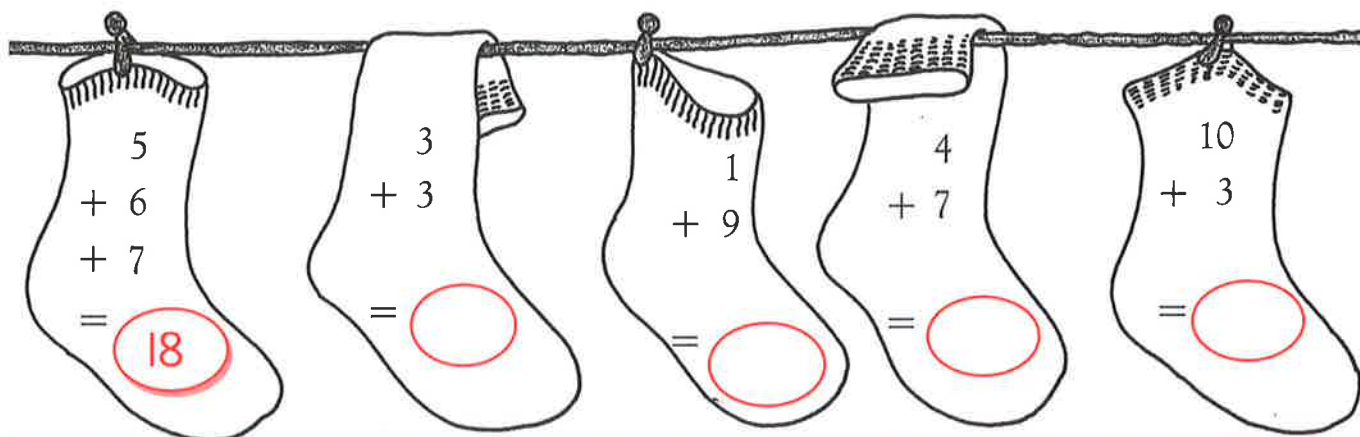
$$\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \boxed{}$$

$$\begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} + \begin{array}{|c|} \hline \\ \hline \end{array} = \boxed{}$$

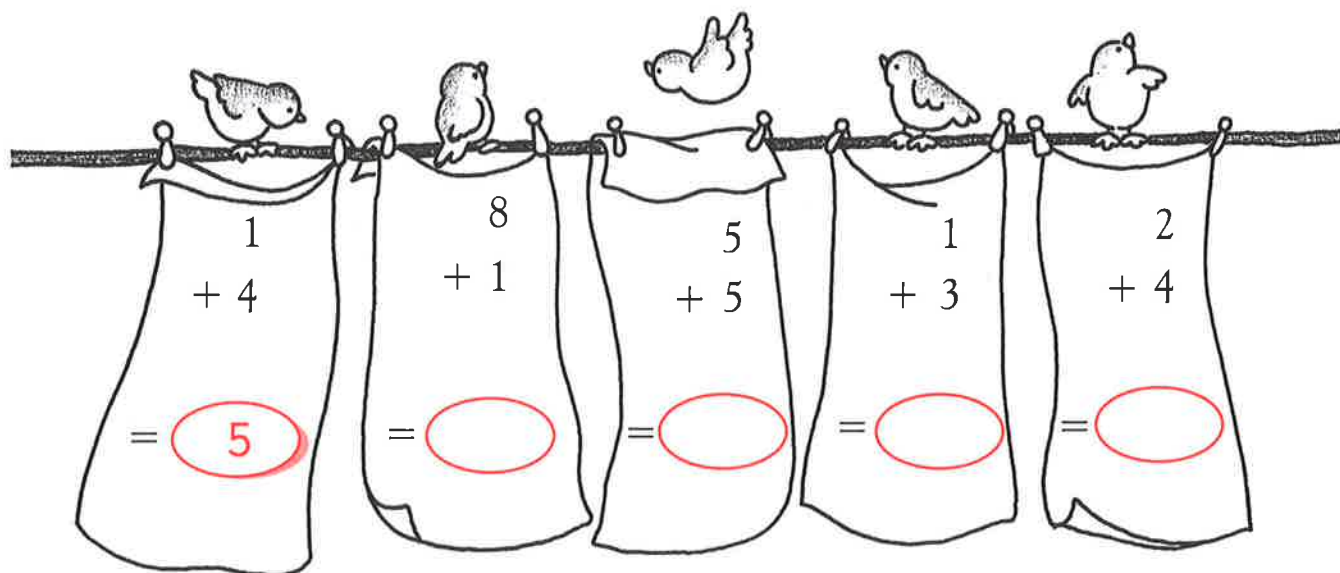
Adding



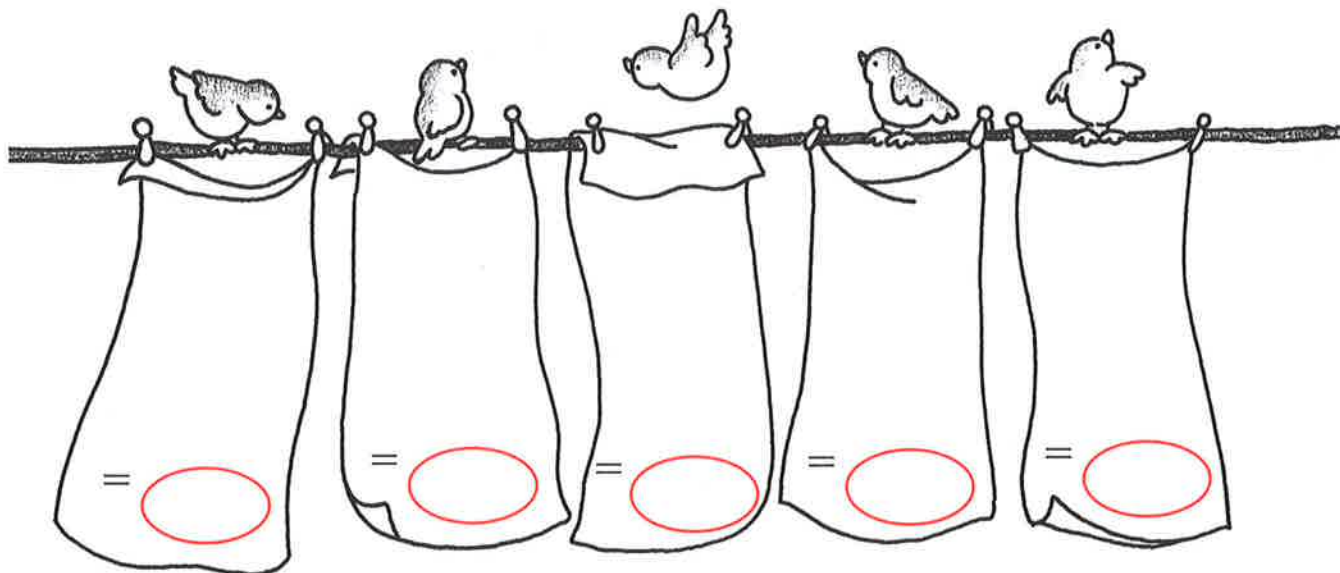
Add up the numbers on the socks.



Add up the numbers on the towels.



Make up your own number towels.





Crossing out

Cross out one type of shape in each box.

Box 1: 12 stars, 7 semi-circles. 7 semi-circles are crossed out with a red diagonal line.

$12 - 7 = 5$ (subtract)

Box 2: 10 squares, 4 triangles. 4 triangles are crossed out with a red diagonal line.

$10 - \square = \square$

Box 3: 16 circles, 4 squares. 4 squares are crossed out with a red diagonal line.

$16 - \square = \square$

Box 4: 10 circles, 4 triangles. 4 triangles are crossed out with a red diagonal line.

$10 - \square = \square$

Box 5: 14 circles, 4 pentagons. 4 pentagons are crossed out with a red diagonal line.

$14 - \square = \square$

Box 6: 10 semi-circles, 2 squares. 2 squares are crossed out with a red diagonal line.

$\square - \square = \square$

Box 7: 10 pentagons, 4 stars. 4 stars are crossed out with a red diagonal line.

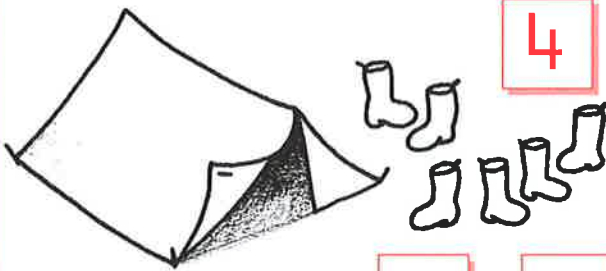
$\square - \square = \square$

Subtraction



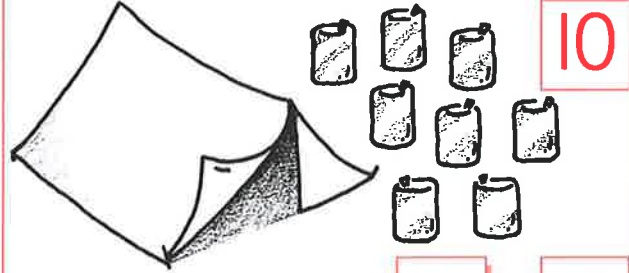
Say and count as you write.

10 altogether. How many in the tent?



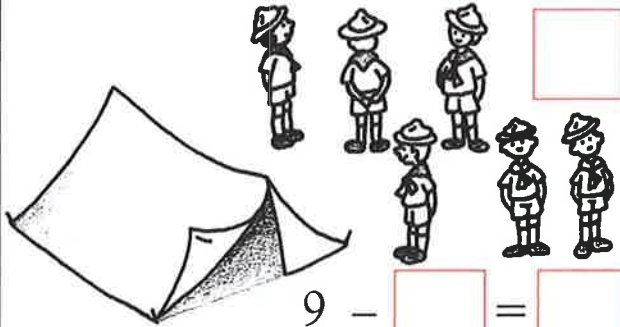
$$10 - 6 = 4$$

18 altogether. How many in the tent?



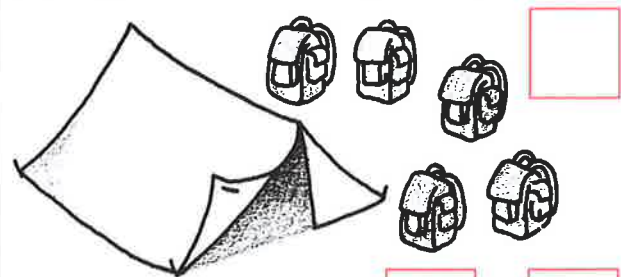
$$18 - 8 = 10$$

9 altogether. How many in the tent?



$$9 - \square = \square$$

8 altogether. How many in the tent?



$$8 - \square = \square$$

Say as you write.

$$16 - 4 = 12$$

$$18 - \square = 7$$

$$12 - \square = 2$$

$$15 - \square = 14$$

$$19 - \square = 5$$

$$15 - \square = 9$$

$$9 - \square = 4$$

$$17 - \square = 11$$

$$11 - \square = 10$$

Say as you write.

$$15 - 5 = 10$$

$$10 - \square = 0$$

$$16 - 0 = \square$$

$$13 - 10 = \square$$

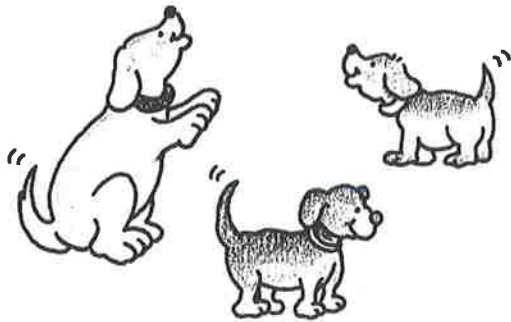
$$20 - \square = 0$$

$$8 - 8 = \square$$



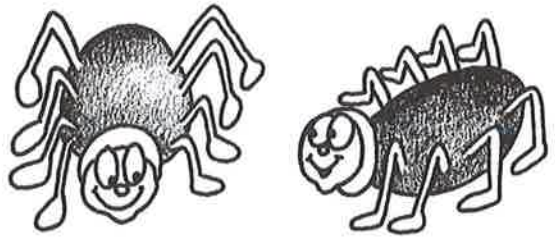
Sets of

Say and count as you write.



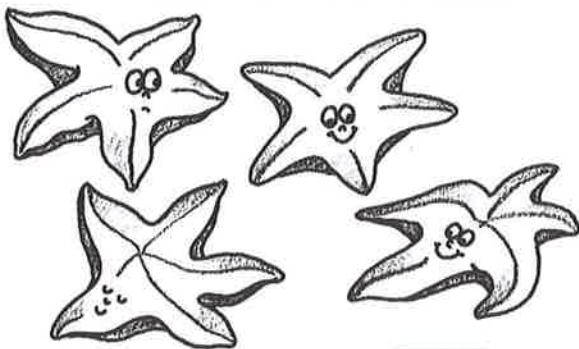
$$4 + 4 + 4 = \boxed{12} \text{ legs}$$

$$\boxed{3} \text{ sets of } \boxed{4} \longrightarrow \boxed{12}$$



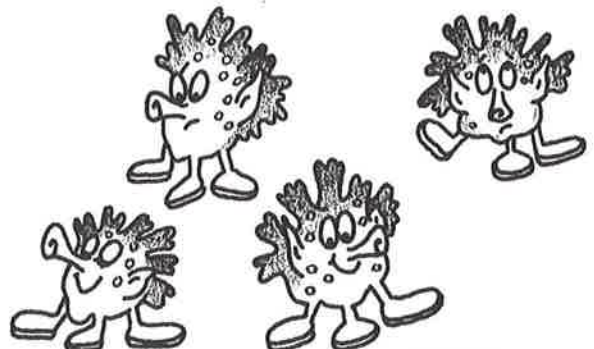
$$8 + 8 = \boxed{} \text{ legs}$$

$$\boxed{2} \text{ sets of } \boxed{8} \longrightarrow \boxed{}$$



$$5 + 5 + 5 + 5 = \boxed{} \text{ legs}$$

$$\boxed{} \text{ sets of } \boxed{} \longrightarrow \boxed{}$$



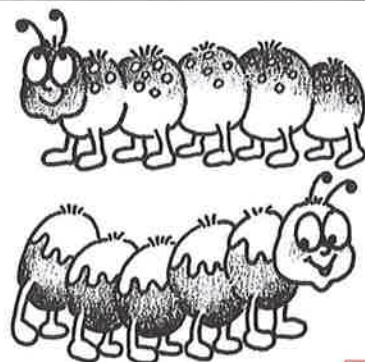
$$3 + 3 + 3 + 3 = \boxed{} \text{ legs}$$

$$\boxed{} \text{ sets of } \boxed{} \longrightarrow \boxed{}$$



$$2 + 2 + 2 = \boxed{} \text{ legs}$$

$$\boxed{} \text{ sets of } \boxed{} \longrightarrow \boxed{}$$



$$10 + 10 = \boxed{} \text{ legs}$$

$$\boxed{} \text{ sets of } \boxed{} \longrightarrow \boxed{}$$

Sharing



Share the food equally.

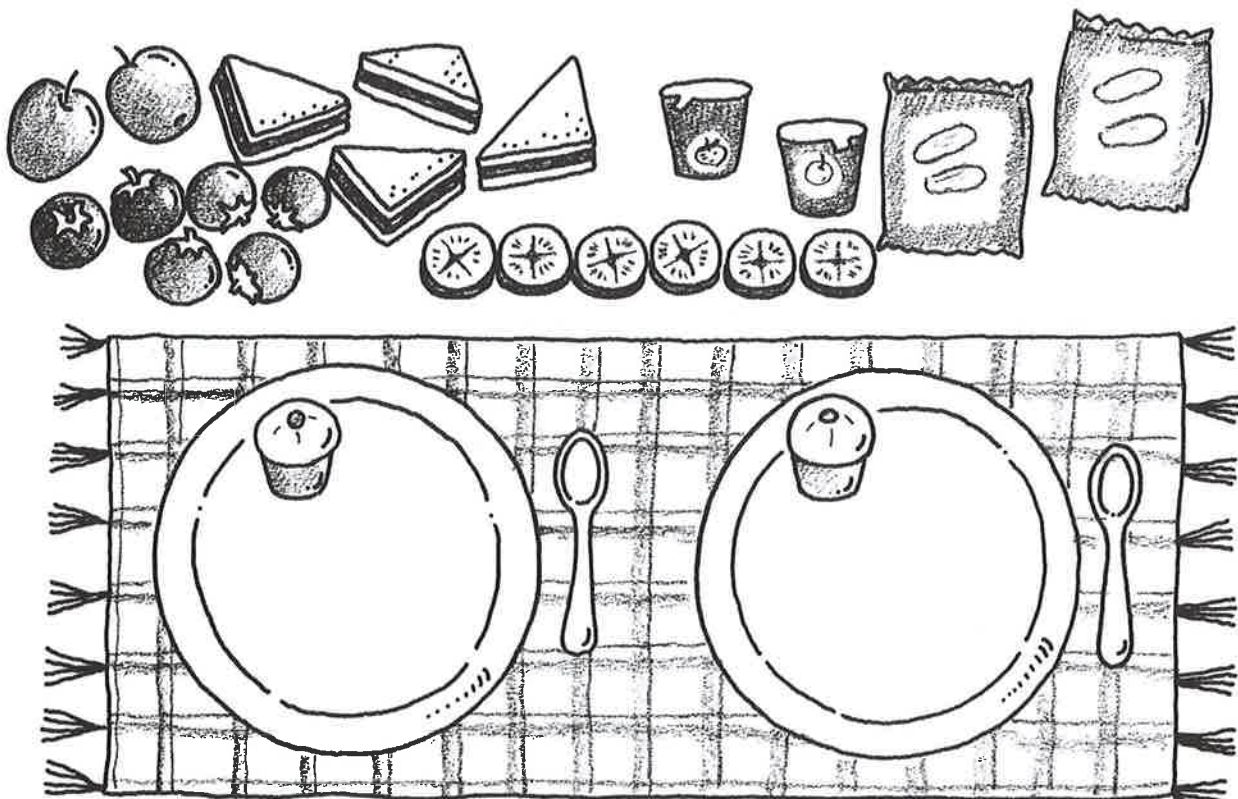
How many each? 2

How many each?

How many each?

How many each?

Draw lines to share the picnic.





Addition properties

Write the missing number.

$6 + 0 = 6$

$0 + 6 = 6$

$\square + 7 = 17$

$\square + 10 = 17$

$11 + \square = 11$

$\square + 11 = 11$

$4 + \square = 12$

$8 + \square = 12$

$13 + \square = 19$

$\square + 13 = 19$

$\square + 3 = 3$

$3 + \square = 3$

Circle the addition fact that has the same sum as $2 + 3$.

$1 + 5$

$3 + 2$

$4 + 2$

Circle the addition fact that has the same sum as $5 + 8$.

$8 + 5$

$6 + 6$

$3 + 9$

Circle the addition fact that has the same sum as $1 + 7$.

$8 + 2$

$2 + 5$

$7 + 1$

Circle the addition fact that has the same sum as $10 + 6$.

$7 + 4$

$9 + 9$

$6 + 10$

Circle the addition fact that has the same sum as $4 + 2$.

$1 + 6$

$2 + 4$

$3 + 2$

Circle the addition fact that has the same sum as $9 + 5$.

$5 + 9$

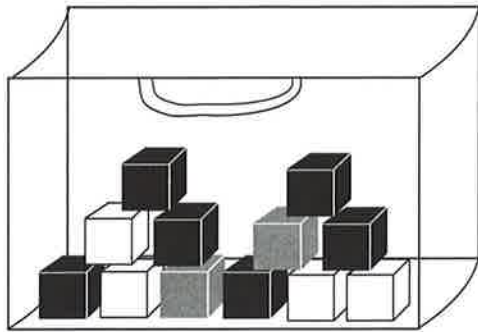
$7 + 6$

$10 + 5$

Most and least likely



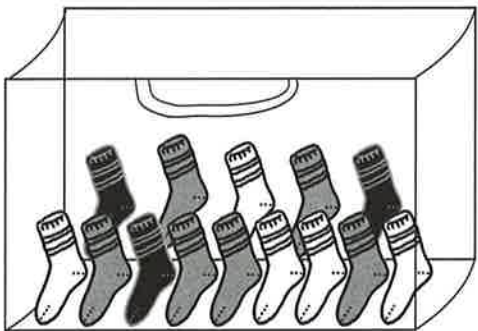
What are you most likely to pick out of each bag? Circle the answer.



a black cube

a grey cube

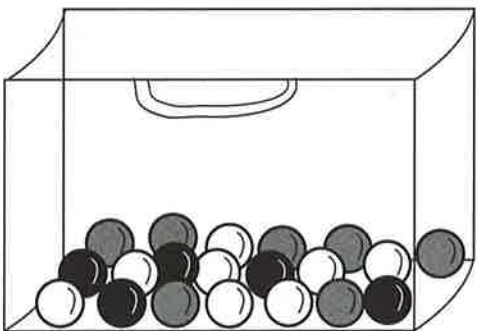
a white cube



a black sock

a grey sock

a white sock

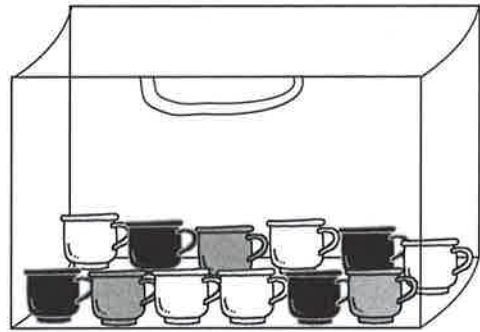


a black marble

a grey marble

a white marble

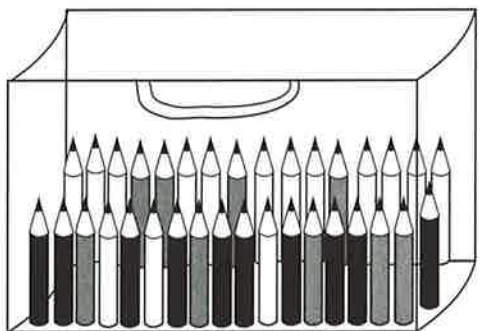
What are you least likely to pick out of each bag? Circle the answer.



a black tea cup

a grey tea cup

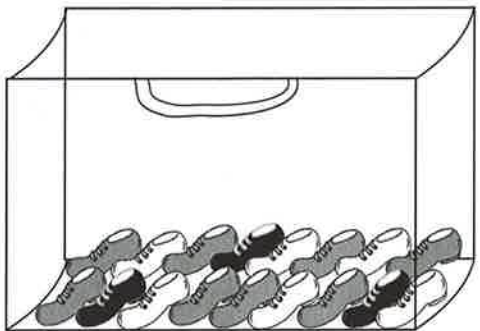
a white tea cup



a black pencil

a grey pencil

a white pencil



a black boot

a grey boot

a white boot



Days and seasons

Days of the week

Can you write them in order?

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Wednesday Thursday Fr

Saturday Sunday M

Thursday Friday S

Yesterday and tomorrow

yesterday	today	tomorrow
Tuesday	Wednesday	
	Monday	
	Thursday	
	Sunday	

Seasons of the year

Draw lines to connect each picture to a season.

Spring

Summer

Autumn

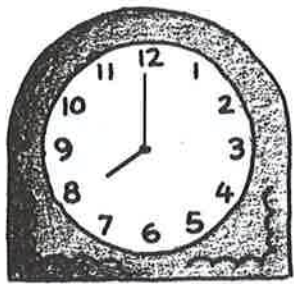
Winter



Using clocks



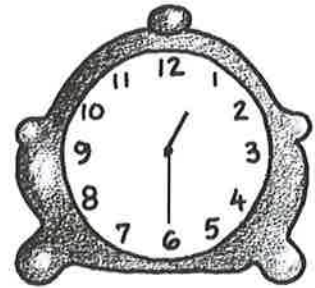
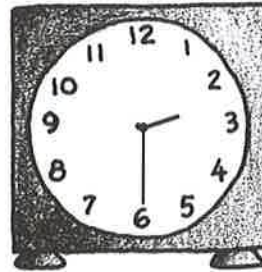
Write the time.



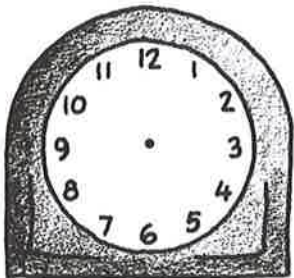
8 o'clock



half past 10



Draw the hands.



half past 7



1 o'clock



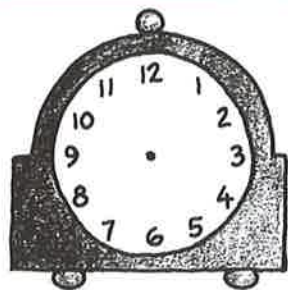
half past 9



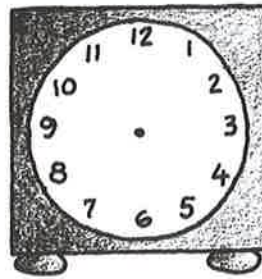
half past 6



half past 1



11 o'clock



half past 8



























2 o'clock



Favourite fruits

This table shows the favourite fruits of a class of children.

grapes								
strawberries								
bananas								
cherries								
oranges								
apples								

Number of children

How many preferred each fruit?



3



Which fruit? Draw.

5



8



1



3



Say and draw.

The fruit
chosen most often is

The fruit
chosen least often is

More children chose

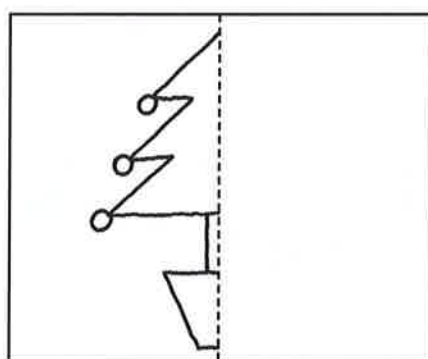
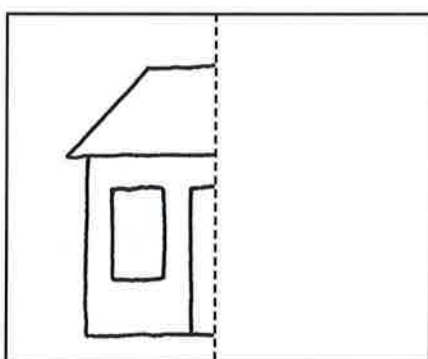
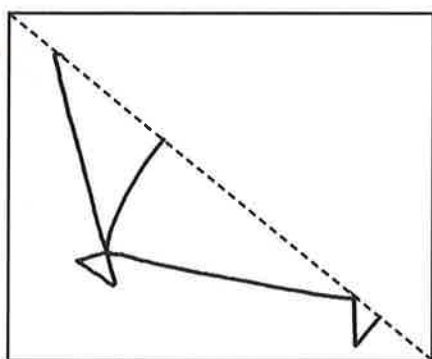
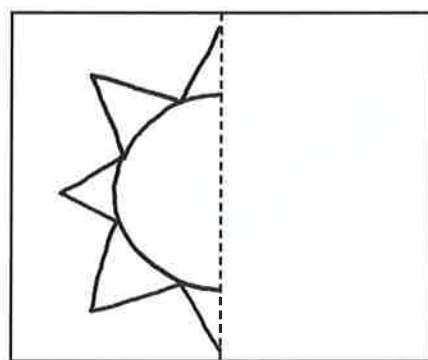
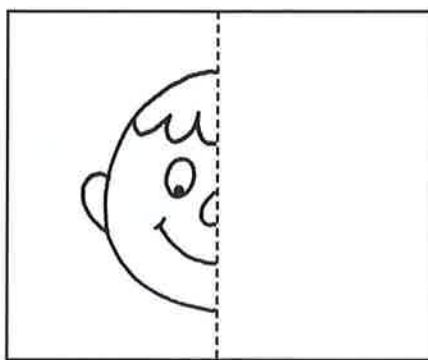
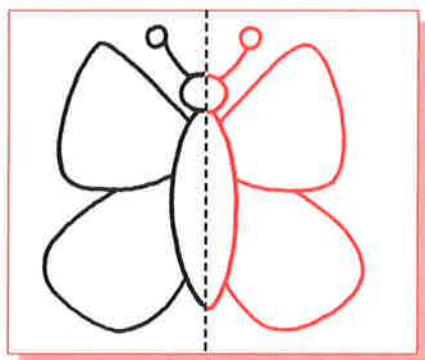
than

My favourite is

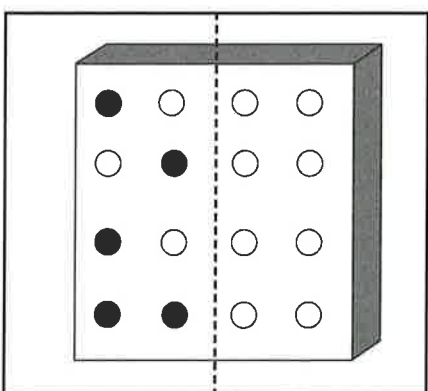
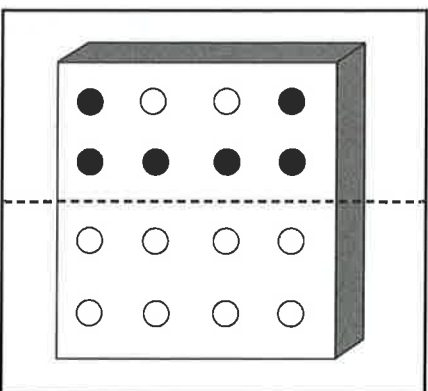
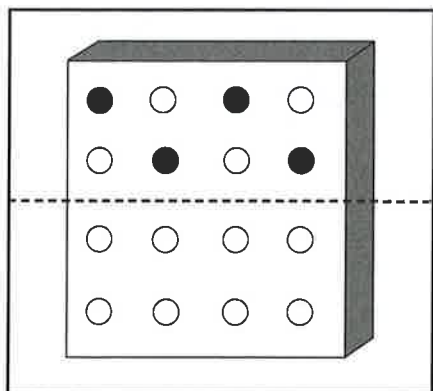
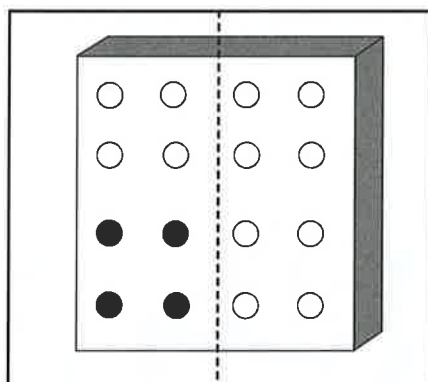
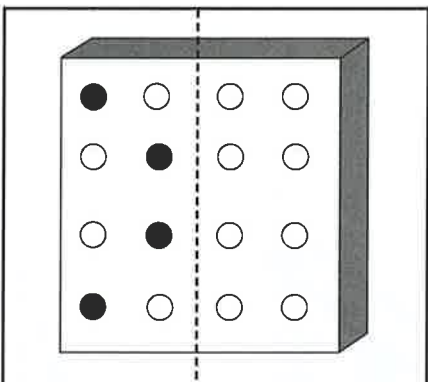
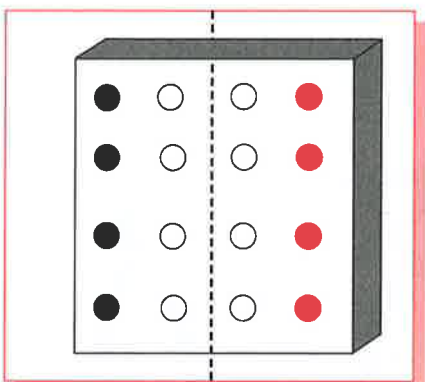
Draw the other half



Finish the pictures.



Make the two halves of the pegboards match. Colour them in.





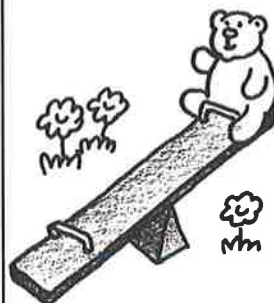
Where's the bear?



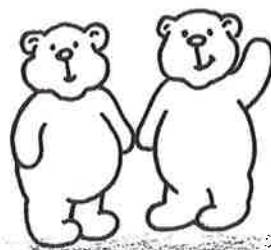
on ☒ yes
next to ☐ no



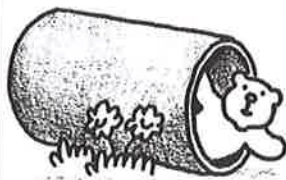
inside ☐
on top ☐



inside ☐
up ☐



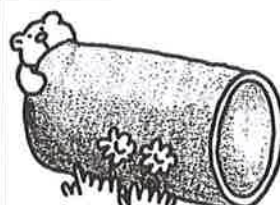
behind ☐
beside ☐



on ☐
in ☐



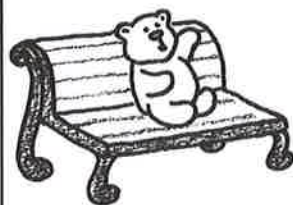
in front ☐
inside ☐



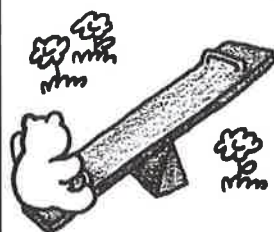
under ☐
behind ☐



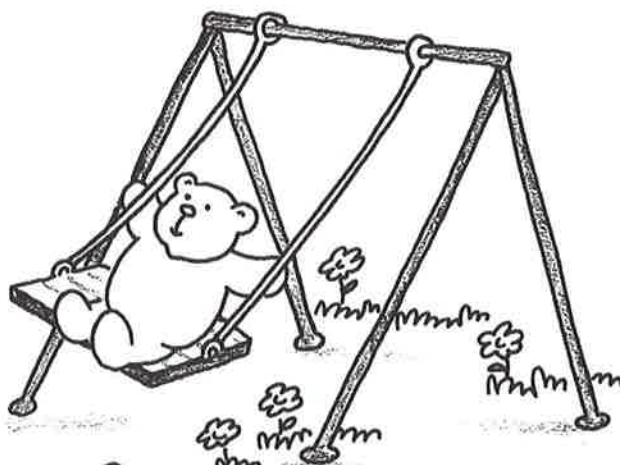
above ☐
under ☐



on ☐
over ☐



down ☐
up ☐



Numbers



Write the numbers.

0 0 0 0

1 1 1 1

2 2 2 2

3 3 3 3

4 4 4 4

5 5 5 5

6 6 6 6

7 7 7 7

8 8 8 8

9 9 9 9

Continue the pattern.

1 5 7 1 5 7

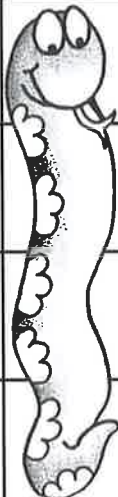




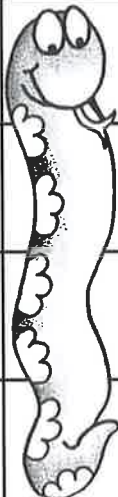
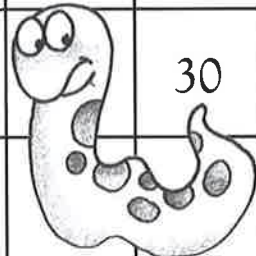
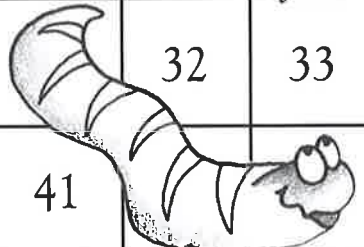
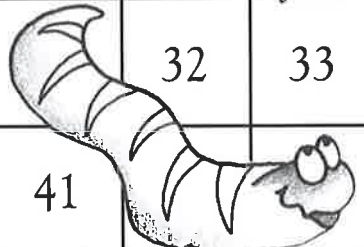
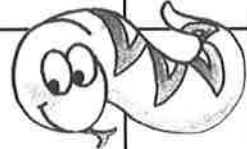
3 6 9 3 6 9

2 4 8 2 4 8



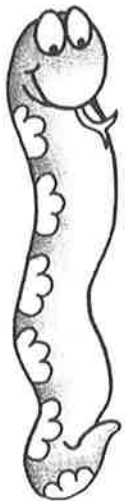
Numbers

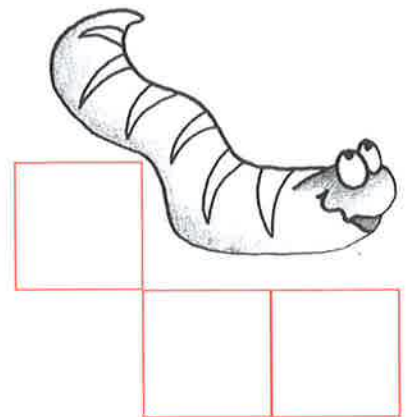
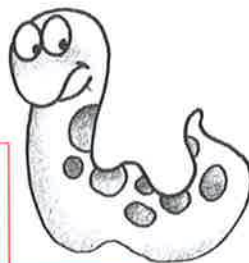
Which numbers are the snakes hiding?
Say the numbers as you write the answers.

1	2	3	4	5		7	8		
11			14	15		17		19	20
21	22		24	25		27	28		
		32	33	34		35	37	38	
41			44	45	46			49	50



9 10







--



--	--



Addition



How many are there in all? Colour them in.

$$\triangle \triangle \triangle + \triangle \triangle \triangle = \triangle \triangle \triangle \triangle \triangle \triangle \triangle \triangle$$

$$\begin{array}{c} \bigcirc \bigcirc \bigcirc \\ \bigcirc \bigcirc \bigcirc \end{array} + \bigcirc \bigcirc = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\square \square + \square \square = \square \square \square \square \square \square \square \square$$

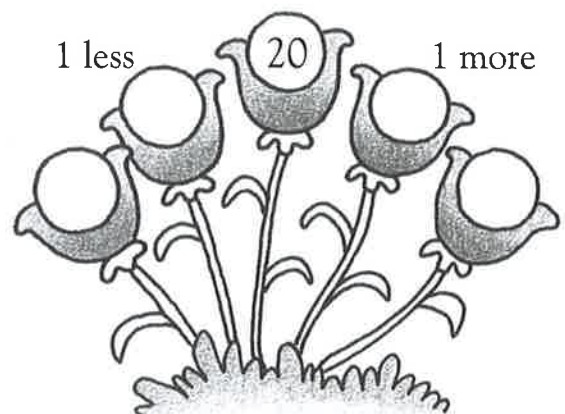
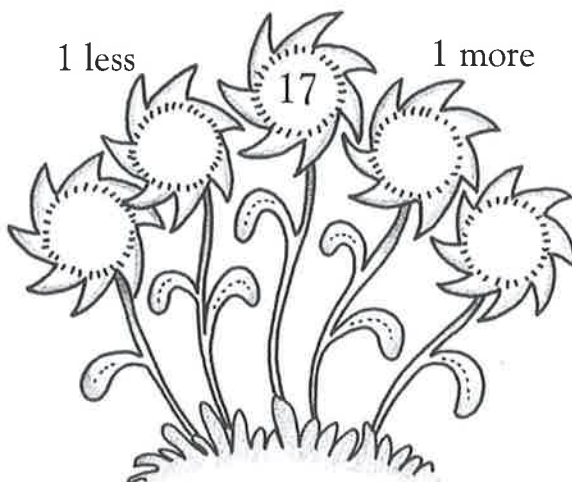
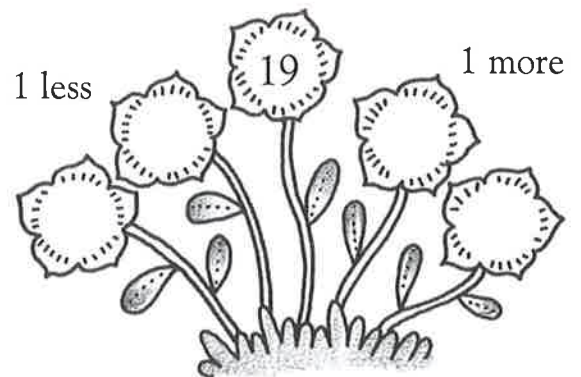
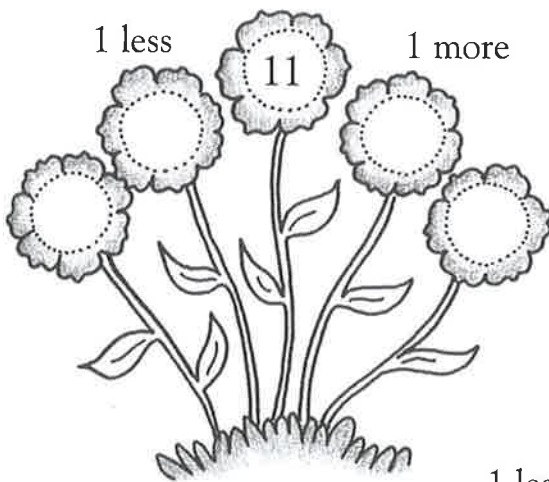
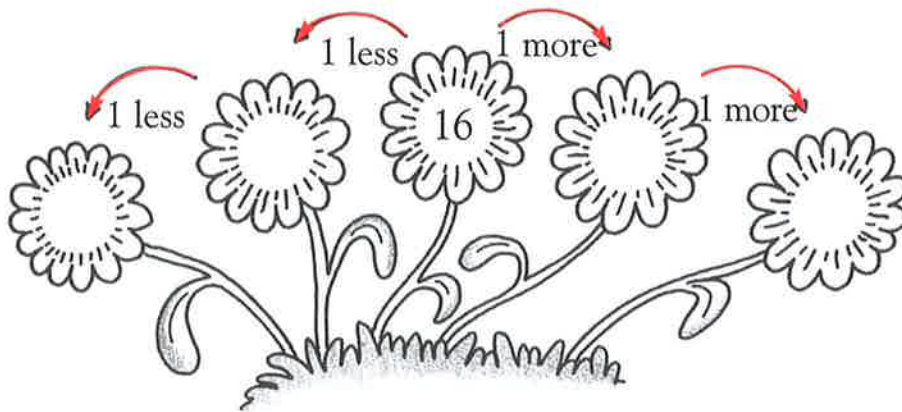
$$\begin{array}{c} \text{☾} \\ \text{☾} \end{array} + \begin{array}{c} \text{☾} \text{ ☾} \\ \text{☾} \text{ ☾} \end{array} = \begin{array}{c} \text{☾} \text{ ☾} \text{ ☾} \\ \text{☾} \text{ ☾} \text{ ☾} \\ \text{☾} \text{ ☾} \end{array}$$

$$\begin{array}{c} \text{🐬} \\ \text{🐬} \\ \text{🐬} \\ \text{🐬} \end{array} + \begin{array}{c} \text{🐬} \\ \text{🐬} \\ \text{🐬} \end{array} = \begin{array}{c} \text{🐬} \text{ 🐬} \text{ 🐬} \\ \text{🐬} \text{ 🐬} \text{ 🐬} \\ \text{🐬} \text{ 🐬} \text{ 🐬} \\ \text{🐬} \text{ 🐬} \text{ 🐬} \end{array}$$



1 less or 1 more

Count, draw, and write.



Tallies



Which tally marks show 13?

--	--	--

Which tally marks show 15?

--	--	--

Which tally marks show 17?

--	--	--

Which tally marks show 23?

--	--	--



Using a table

Use the table to answer the questions.
Circle the correct answer.

Glasses of water

Name	Saturday	Sunday
Sasha	4	6
William	6	4
Anita	6	8
Nabi	5	7

Who drank less water on Saturday?

Sasha Nabi

How many glasses of water did Anita drink on Sunday?

4 8 7

Who drank 7 glasses of water on Sunday?

Nabi Anita

Who drank a total of 10 glasses of water?

Nabi William

Who drank the most glasses of water?

Nabi Anita

Who drank less water on Sunday?

Anita Nabi

How many glasses of water did Sasha and William together drink on Saturday?

10 12

Patterns of 2, 5, and 10



Count, colour, and find a pattern.

Count by 2s and colour them red.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Count by 5s and colour them purple.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Count by 10s and colour them yellow.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50



More or less

Connect the spaceships to the planets and the rockets to the stars.

1 more

Diagram showing 5 spaceships and 5 planets. A red line connects spaceship 49 to planet 50.

Spaceship	Planet
49	50
11	34
40	29
33	12
28	41

10 more

Diagram showing 5 spaceships and 5 planets. A red line connects spaceship 49 to planet 59.

Spaceship	Planet
49	59
11	38
40	43
33	21
28	50

1 less

Diagram showing 5 rockets and 5 stars. A red line connects rocket 33 to star 32.

Rocket	Star
49	39
11	27
40	10
33	32
28	48

10 less

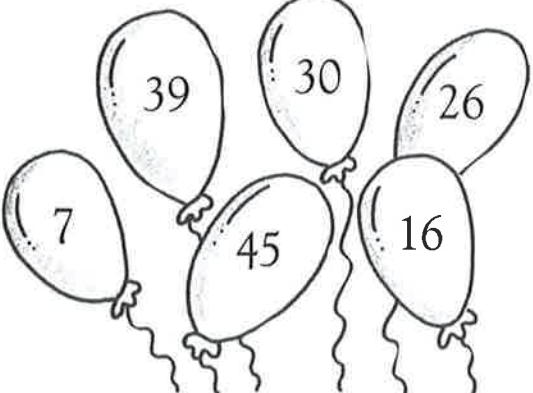
Diagram showing 5 rockets and 5 stars. A red line connects rocket 33 to star 18.

Rocket	Star
49	1
11	39
40	18
33	23
28	30

Ordering

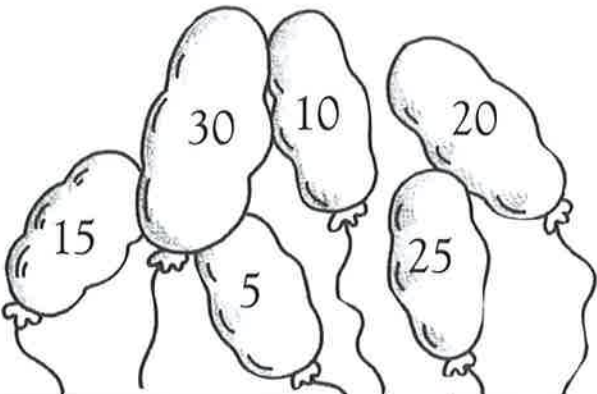


Write the numbers in order.



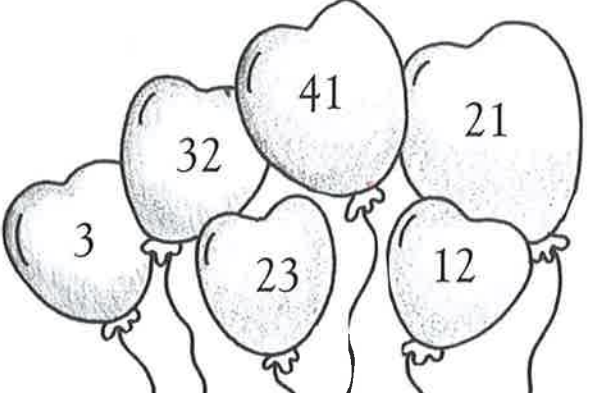
smallest first

7	16	26			
---	----	----	--	--	--




greatest first

--	--	--	--	--	--



smallest first

--	--	--	--	--	--



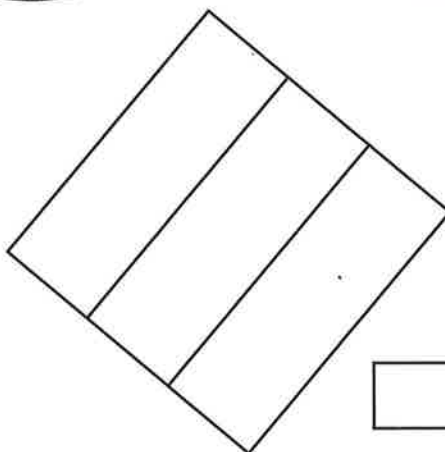
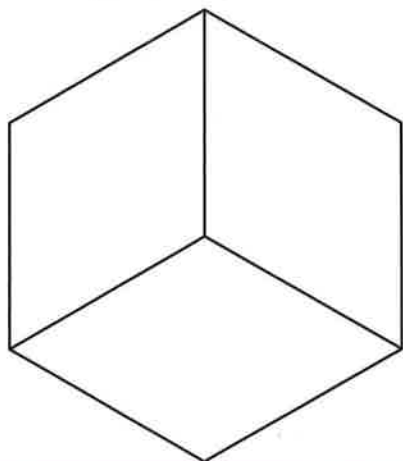
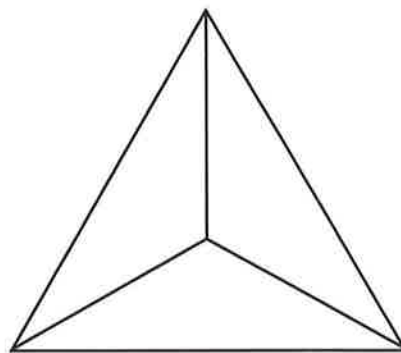
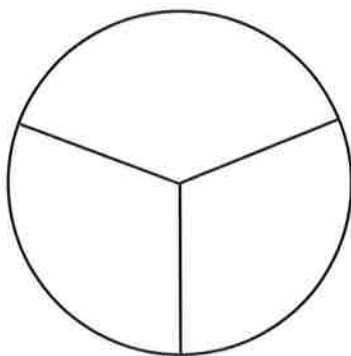
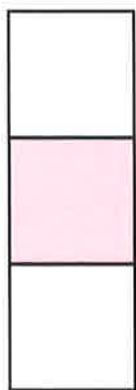
greatest first

--	--	--	--	--	--

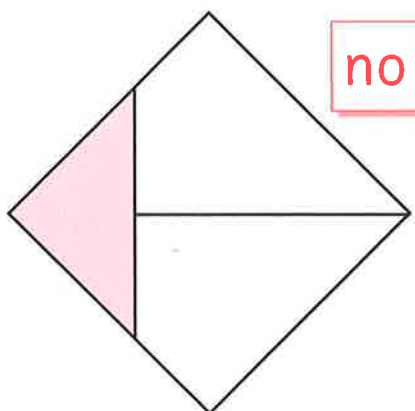


Fractions of shapes

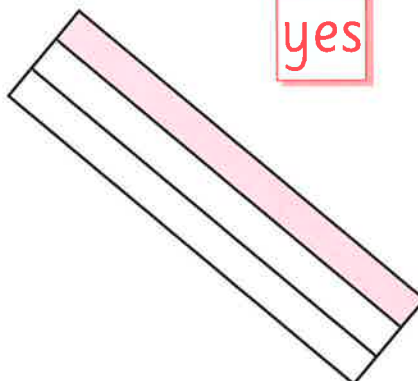
Colour one third ($\frac{1}{3}$).



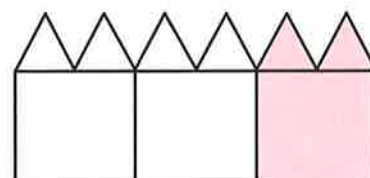
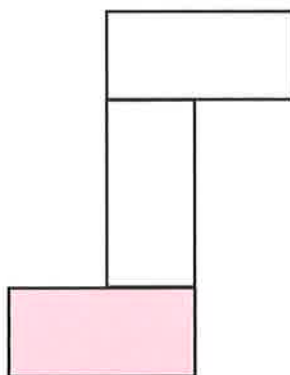
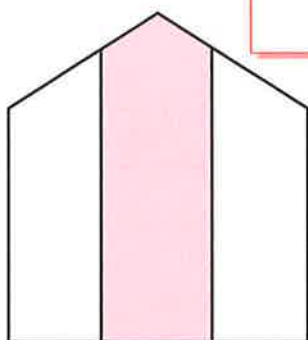
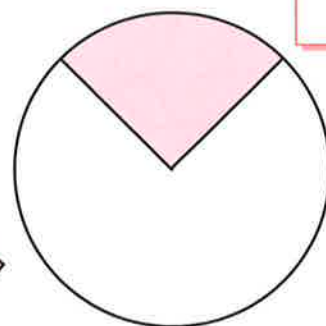
Is it $\frac{1}{3}$? Yes or no.



no



yes



Addition



How many are there in all? Colour them in.

$$\bigcirc \bigcirc \bigcirc + \bigcirc \bigcirc \bigcirc \bigcirc = \text{7 red circles} \bigcirc$$

$$\begin{array}{c} \bigcirc \bigcirc \bigcirc \\ \bigcirc \bigcirc \end{array} + \begin{array}{c} \bigcirc \bigcirc \\ \bigcirc \end{array} = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\begin{array}{c} \text{ball} \quad \text{ball} \end{array} + \begin{array}{c} \text{ball} \\ \text{ball} \quad \text{ball} \end{array} = \begin{array}{cccc} \text{ball} & \text{ball} & \text{ball} & \text{ball} \\ \text{ball} & \text{ball} & \text{ball} & \text{ball} \end{array}$$

$$\begin{array}{c} \text{cube} \\ \text{cube} \quad \text{cube} \end{array} + \begin{array}{c} \text{cube} \\ \text{cube} \quad \text{cube} \end{array} = \begin{array}{cccc} \text{cube} & \text{cube} & \text{cube} & \text{cube} \\ \text{cube} & \text{cube} & \text{cube} & \text{cube} \end{array}$$

$$\begin{array}{c} \text{fish} \\ \text{fish} \quad \text{fish} \\ \text{fish} \quad \text{fish} \\ \text{fish} \end{array} + \begin{array}{c} \text{fish} \\ \text{fish} \end{array} = \begin{array}{ccc} \text{fish} & \text{fish} & \text{fish} \\ \text{fish} & \text{fish} & \text{fish} \\ \text{fish} & \text{fish} & \text{fish} \\ \text{fish} & \text{fish} & \text{fish} \end{array}$$



Adding coins

Use three coins each time.
How many different totals can you make?



$$10\text{¢} + 1\text{¢} + 1\text{¢} = 12\text{¢}$$

$$25\text{¢} + 5\text{¢} + 1\text{¢} = 31\text{¢}$$

Addition grid



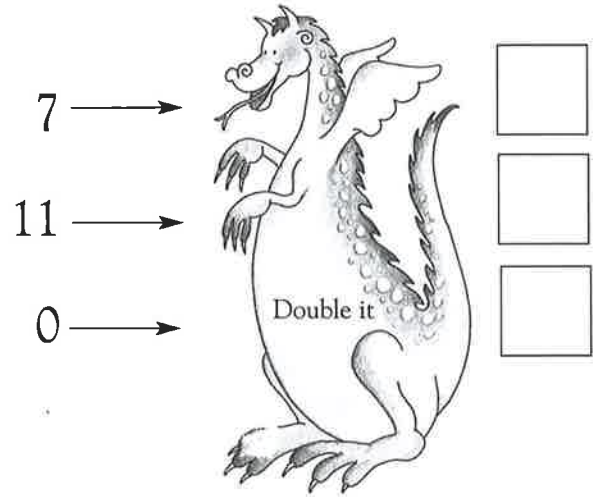
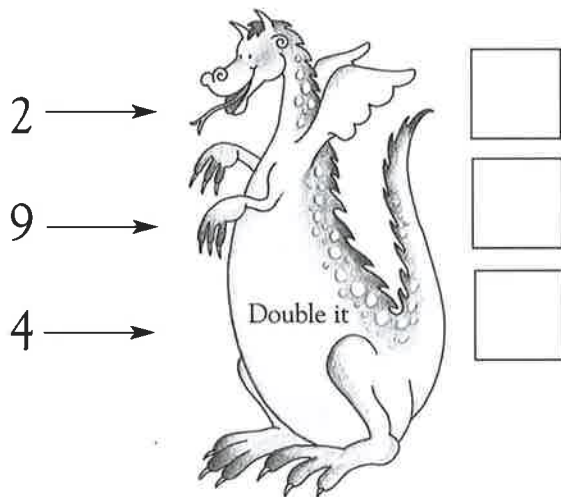
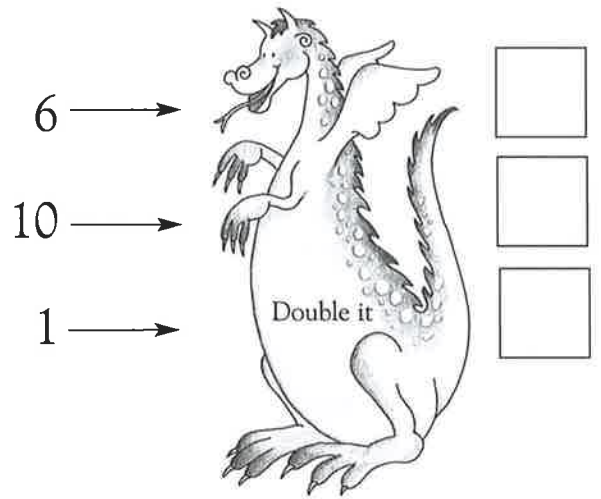
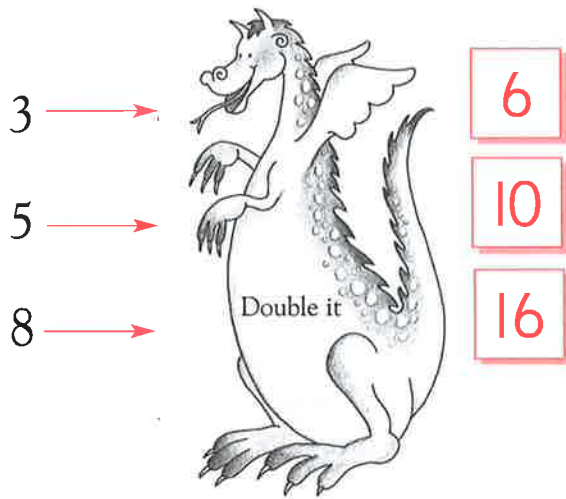
Draw rings around the pairs of numbers that add up to 20.

15	5	3	10	10	4	19
8	6	20	0	9	1	10
12	13	7	12	0	16	1
4	5	10	16	4	5	10
9	2	18	7	20	3	10
11	3	3	1	0	11	9
17	1	1	19	3	18	11



Doubles

Write the missing numbers.



What has been doubled? Write the missing number.

Double **4** is 8

Double **8** is 16

Double is 18

Double is 20

Double is 14

Double is 6

Double is 12

Double is 10

Double is 4

Double is 2

Fact families



Complete each fact family.

4, 5, 9

$$4 + 5 = 9$$

$$5 + 4 = 9$$

$$9 - 4 = 5$$

$$9 - 5 = 4$$

3, 4, 7

$$3 + 4 = 7$$

$$4 + 3 = \square$$

$$7 - 3 = 4$$

$$7 - 4 = \square$$

2, 4, 6

$$2 + 4 = 6$$

$$4 + 2 = \square$$

$$6 - 4 = 2$$

$$6 - 2 = \square$$

3, 5, 8

$$3 + 5 = 8$$

$$5 + 3 = \square$$

$$8 - 3 = 5$$

$$8 - 5 = \square$$



Addition

Add to find each sum.

$$\begin{array}{r} 13 \\ + 4 \\ \hline 17 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 0 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ + 7 \\ \hline \end{array}$$

Subtraction



Subtract to find the difference.

$$\begin{array}{r} 14 \\ - 3 \\ \hline \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 8 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline \end{array}$$



Subtraction

Subtract to find the difference.

$$\begin{array}{r} 80 \\ - 30 \\ \hline 50 \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 30 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 30 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ - 30 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 20 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ - 40 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ - 30 \\ \hline \end{array}$$

$$\begin{array}{r} 70 \\ - 30 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ - 40 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ - 40 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ - 70 \\ \hline \end{array}$$

$$\begin{array}{r} 80 \\ - 10 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ - 50 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ - 40 \\ \hline \end{array}$$

Subtraction



Subtract to find the difference.

$$\begin{array}{r} 87 \\ - 34 \\ \hline 53 \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 39 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ - 32 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ - 11 \\ \hline \end{array}$$

$$\begin{array}{r} 27 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ - 46 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ - 31 \\ \hline \end{array}$$

$$\begin{array}{r} 88 \\ - 14 \\ \hline \end{array}$$

$$\begin{array}{r} 77 \\ - 33 \\ \hline \end{array}$$

$$\begin{array}{r} 93 \\ - 22 \\ \hline \end{array}$$

$$\begin{array}{r} 67 \\ - 53 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ - 22 \\ \hline \end{array}$$

$$\begin{array}{r} 99 \\ - 79 \\ \hline \end{array}$$

$$\begin{array}{r} 82 \\ - 70 \\ \hline \end{array}$$

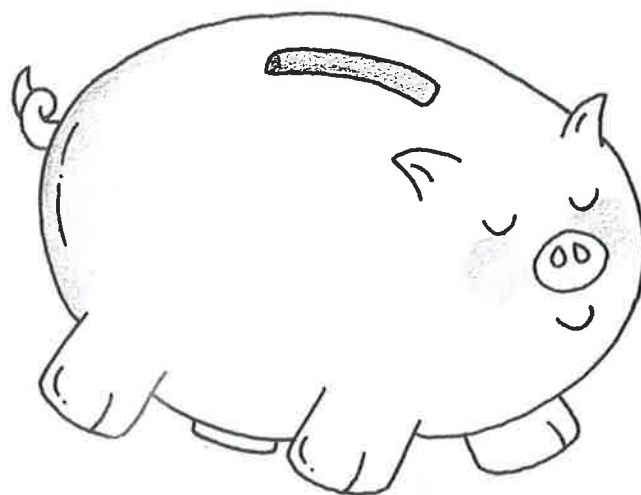
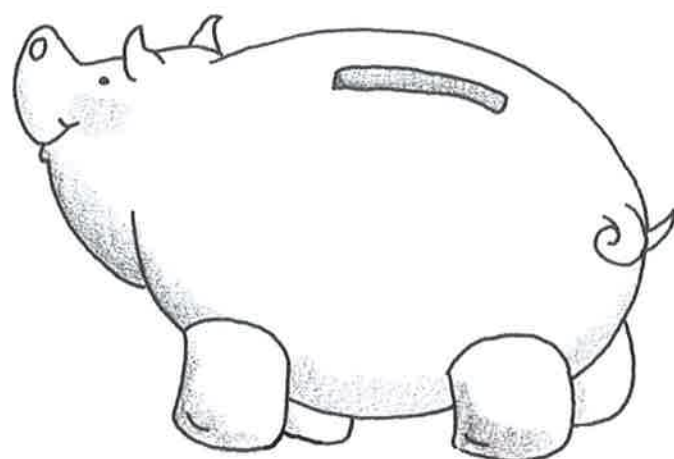
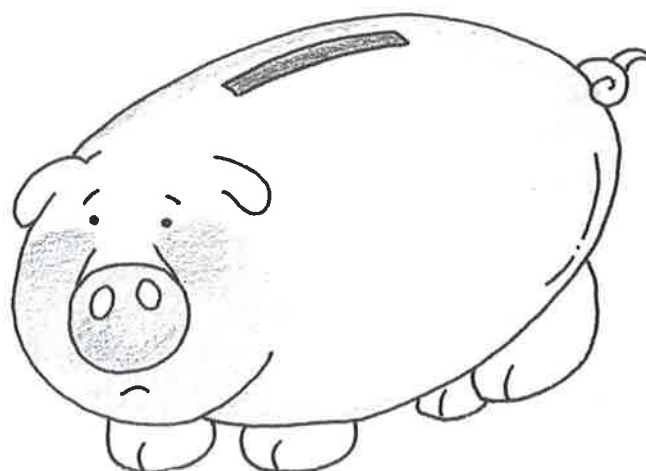
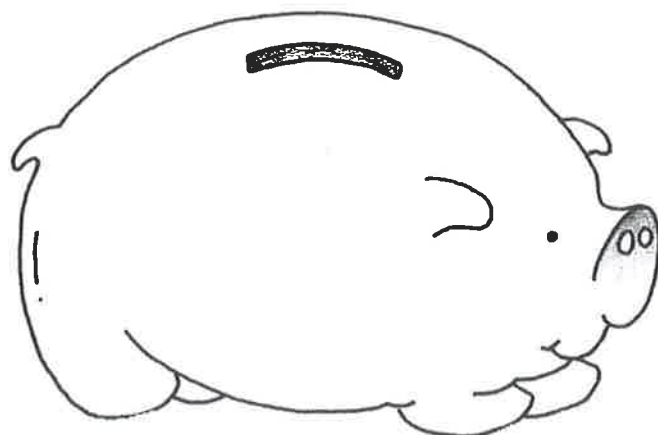
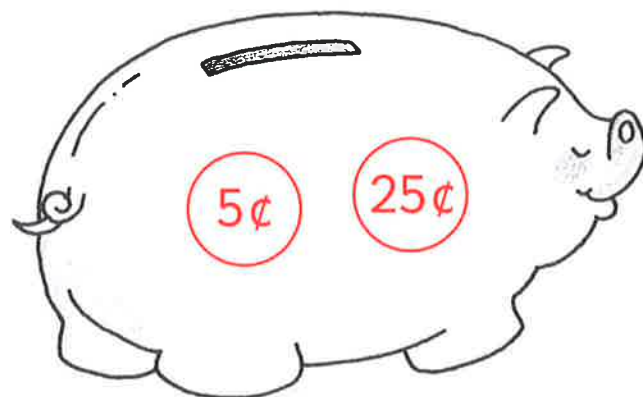
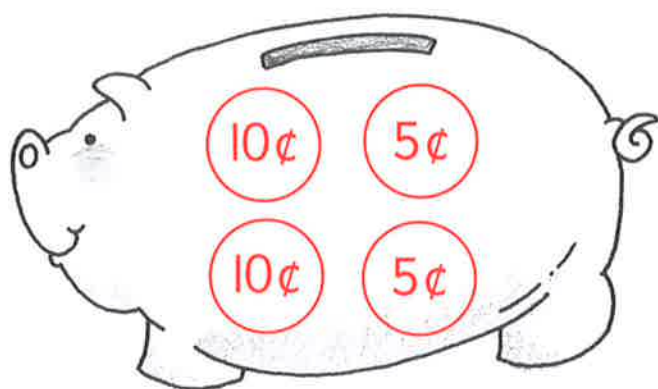
$$\begin{array}{r} 69 \\ - 69 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ - 46 \\ \hline \end{array}$$

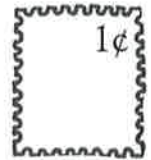
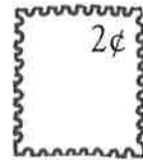


Real-life problems

All the piggy banks need 30¢. Draw different coins in each one.
You can use any coin more than once.



Real-life problems



Draw the stamps on the letters.
You can use any stamp more than once.

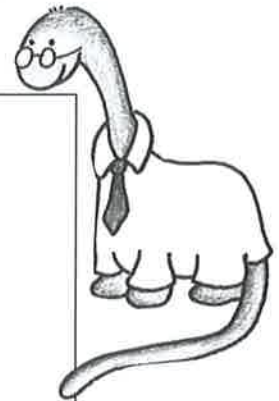


Ms. Heather Hedgehog
1 The Leaf Pile
Snowdrop Corner
Garden City



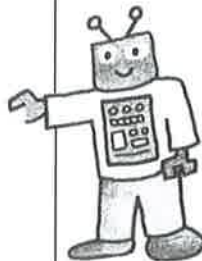
12¢

Doctor Dilly Dinosaur
6 The Swamp
Mud Town



20¢

Rachel Robot
999 Mechanical Mansion
Metalville



10¢

Cheeky Charlie Chimp
100 Banana Court
Giggleton
Apeland



18¢

Mr. Bertie Bear
The Toy Box
Betty's Bedroom
The Big House



11¢

Samuel Spider
Wonder Web
Grandpa's Greenhouse
South Central Garden



6¢



Subtraction tables

Finish each table.

–	2	3	5	10
11	9	8		
15	13			
20				

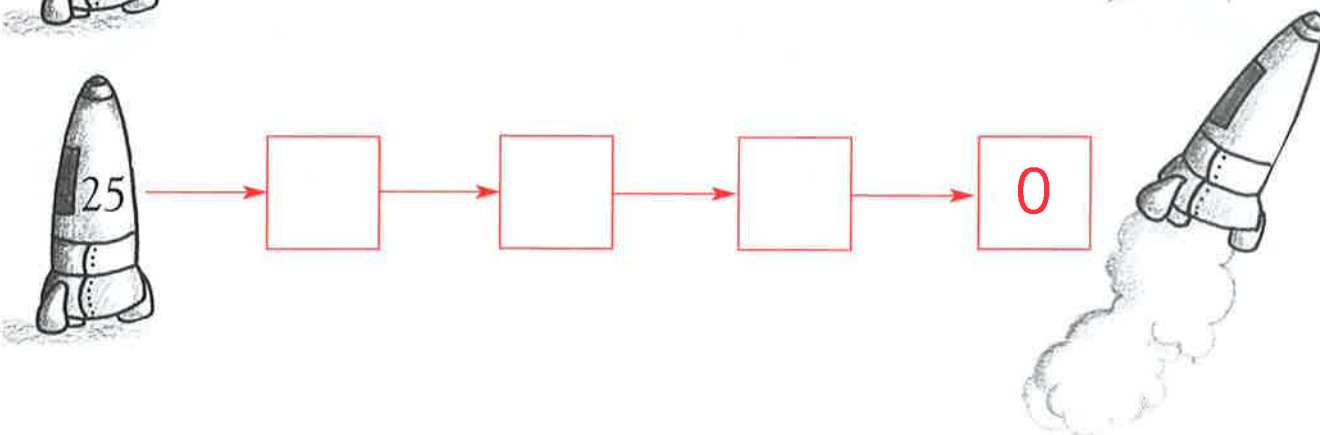
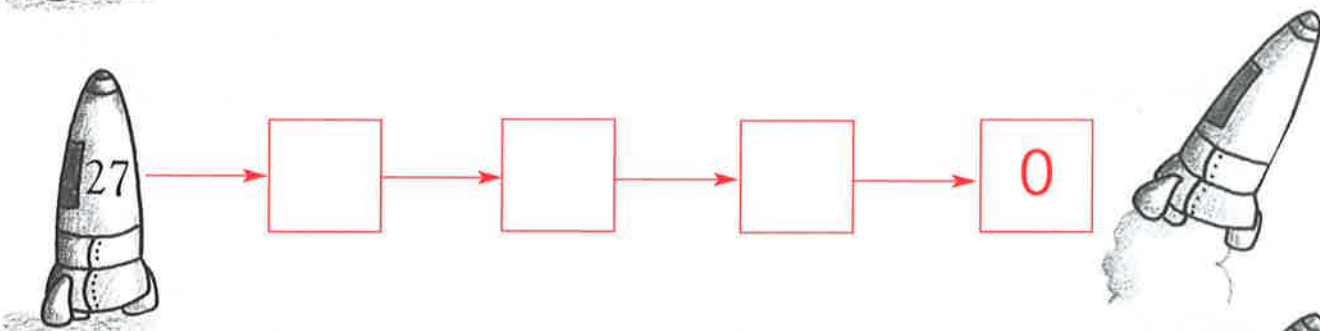
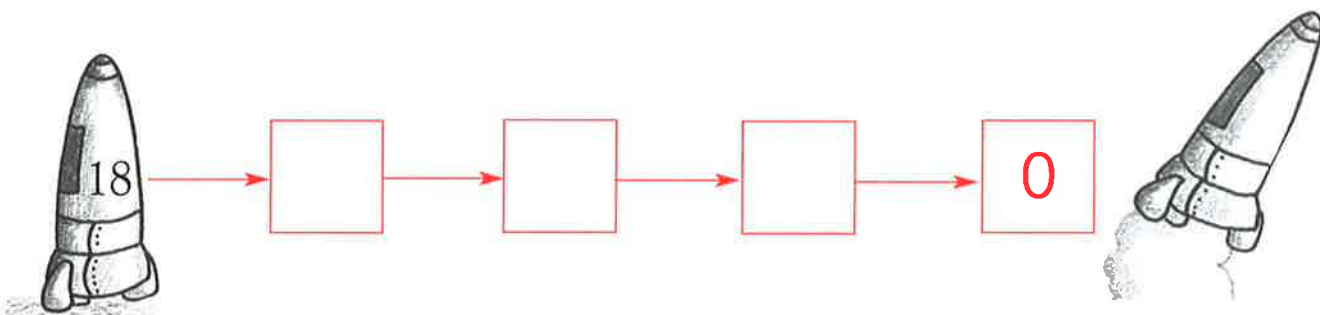
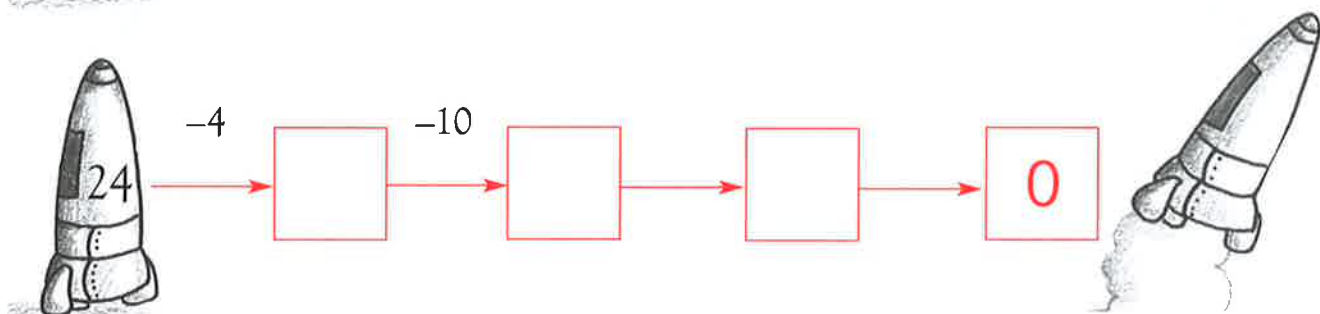
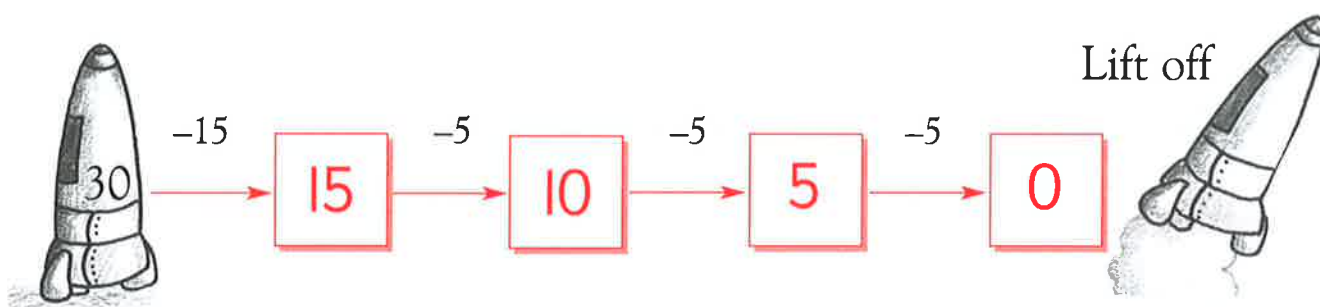
–	1	6	8	9
14				
19	18	13	11	
20				

–	0	4	7	11
12			5	
28			21	
18				

Counting down



The rocket can only lift off at zero.
Use subtraction to get to 0 in 4 moves.





Clocks

Write the times under the clocks.



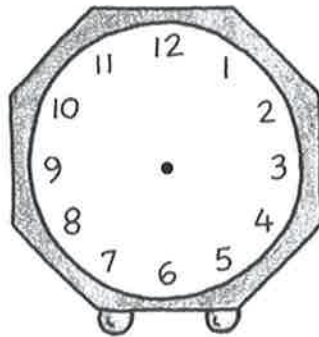
4 o'clock



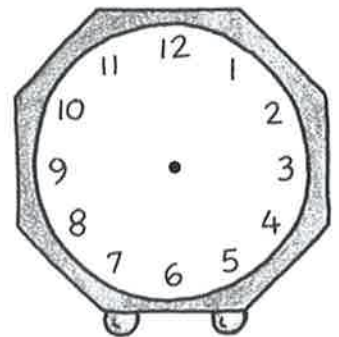
Draw the hands.



half past 7



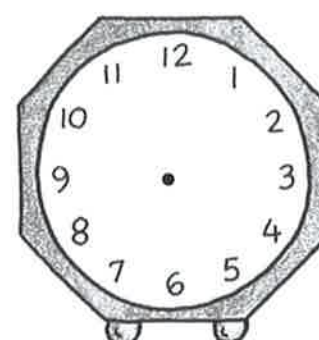
half past 2



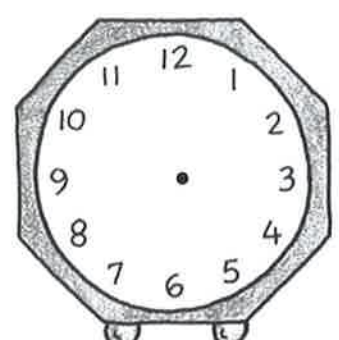
10 o'clock



half past 11



3 o'clock



9 o'clock

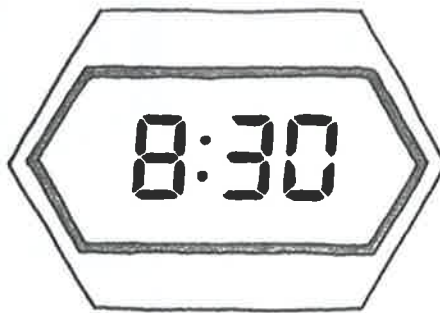
Digital clocks



Write the times under the clocks.



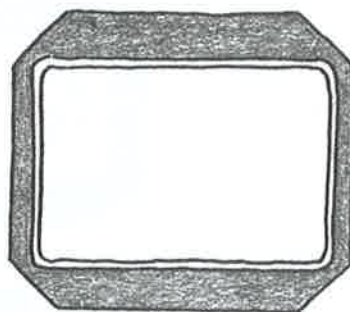
half past 12



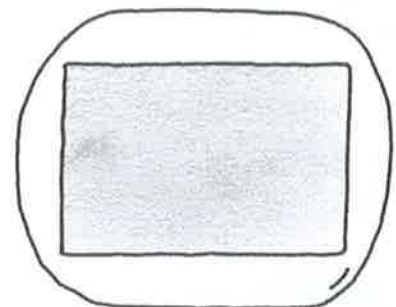
Fill in the digital times on the clock faces.



half past 11



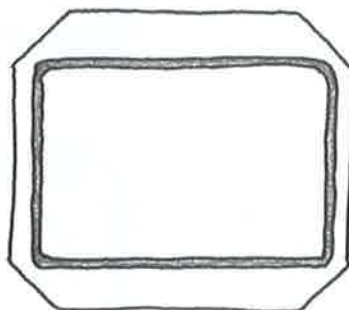
half past 1



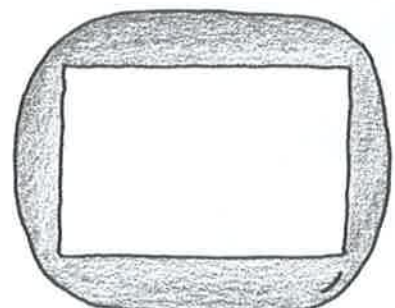
12 o'clock



half past 3



8 o'clock



10 o'clock



Match the times

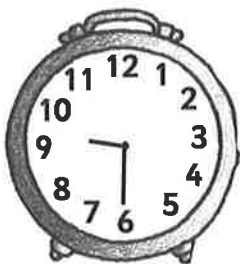
Draw a line to connect the matching times.



half past nine



half past 9



2 o'clock



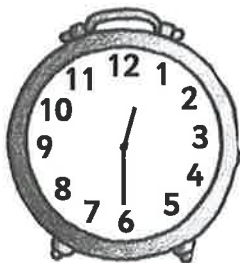
6 o'clock



six o'clock



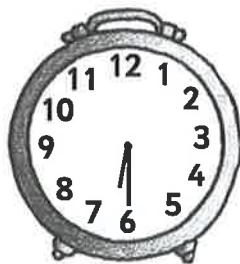
2 o'clock



half past six



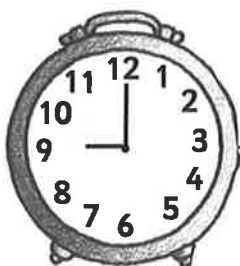
9 o'clock



half past twelve



half past 6



nine o'clock



half past 12

Do you know?



Put the months in order by writing a number on each page.



How many ...

... seconds in a minute?

... minutes in an hour?

... hours in a day?

... days in a week?

... days in a year?

... months in a year?

Learn this rhyme.



30 days have September,
April, June, and November.

All the rest have 31,
Except February alone
That has 28 days clear
29 in each leap year.

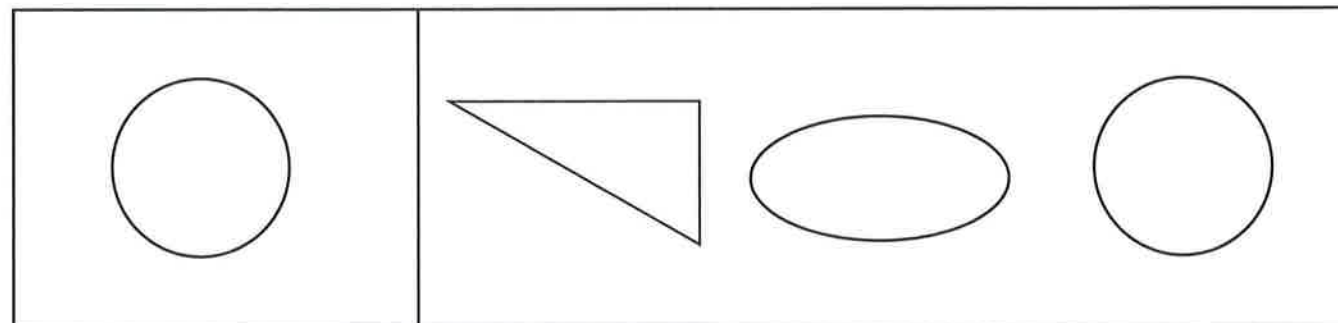
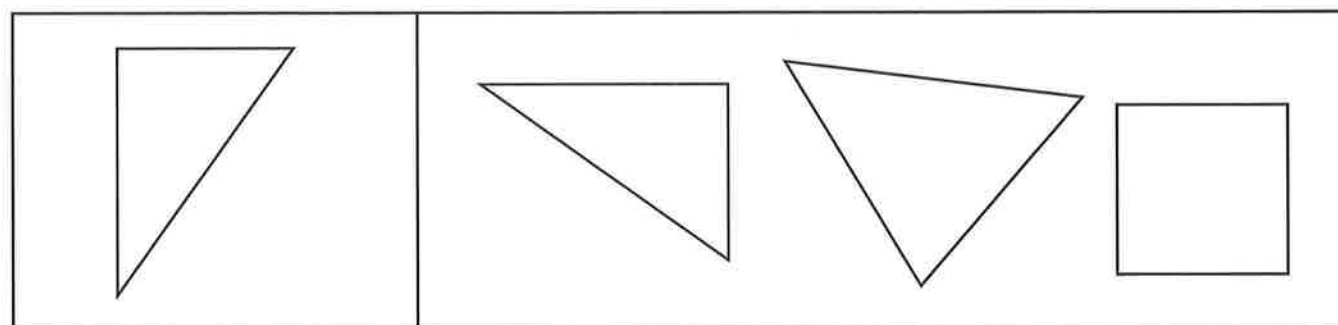
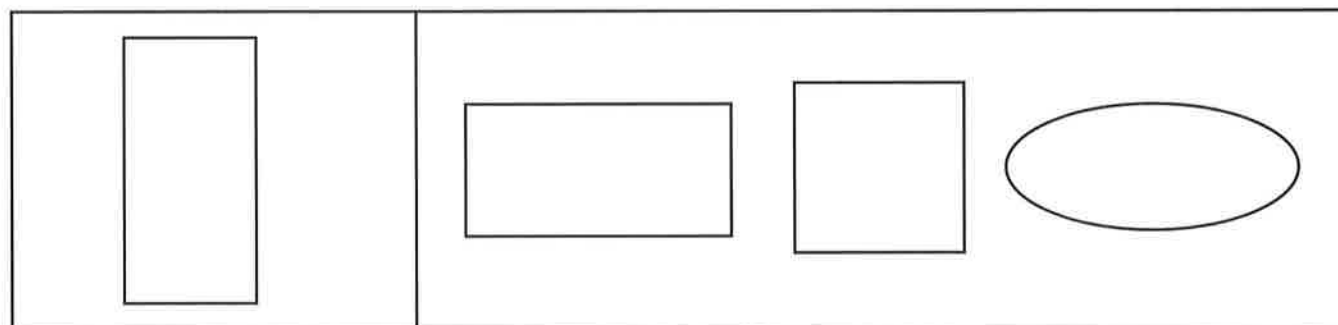
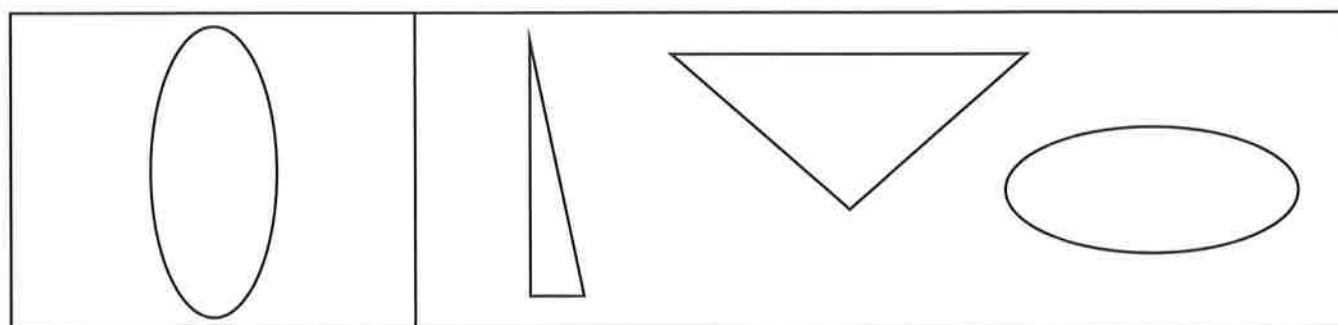
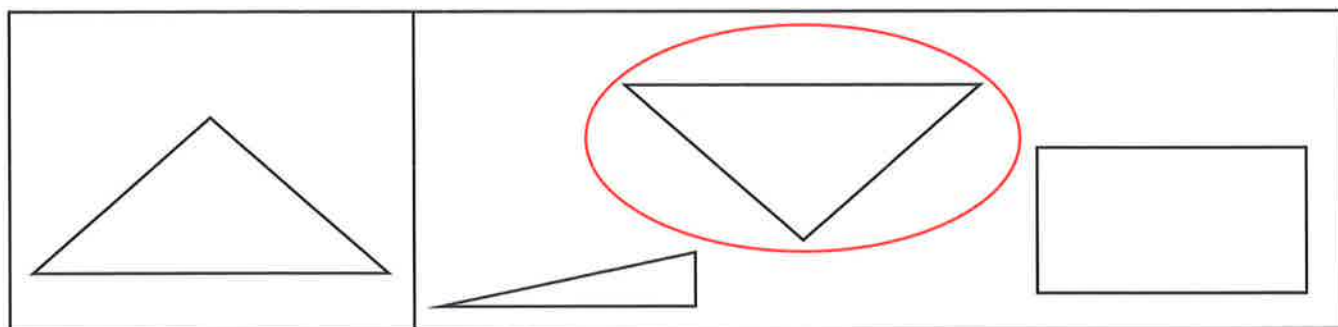


How many days are there in your birthday month?



Matching shapes

Ring the shape that matches the first shape.

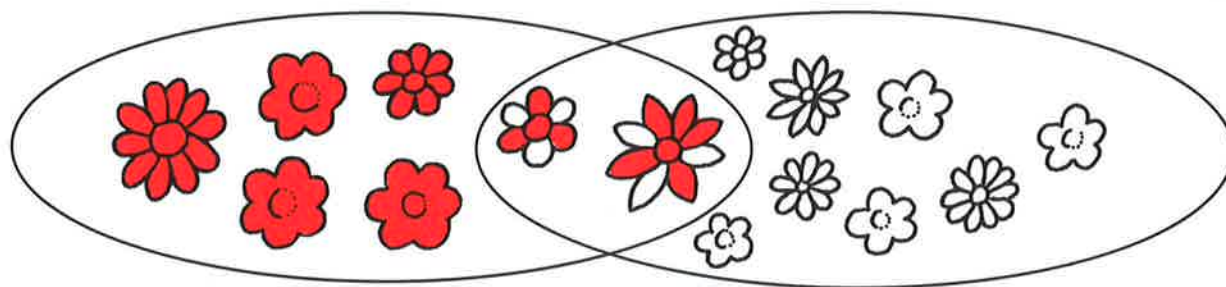


Venn diagrams



Flowers with red petals

Flowers with white petals



How many flowers have ...

... red petals?

7

... white petals?

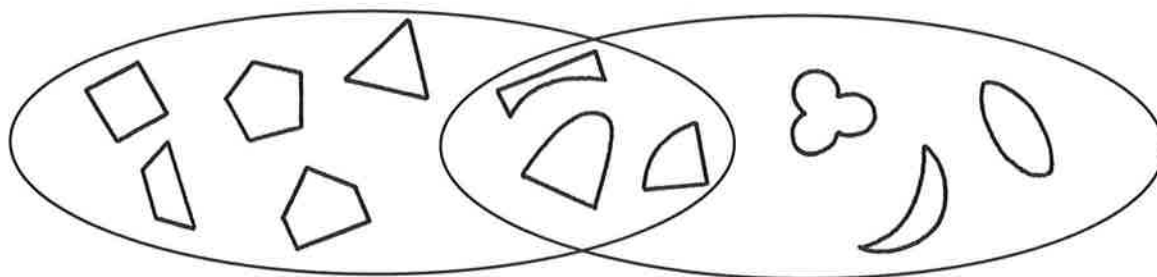
10

... both red
and white petals?

2

Shapes with straight sides

Shapes with curved sides



How many shapes have ...

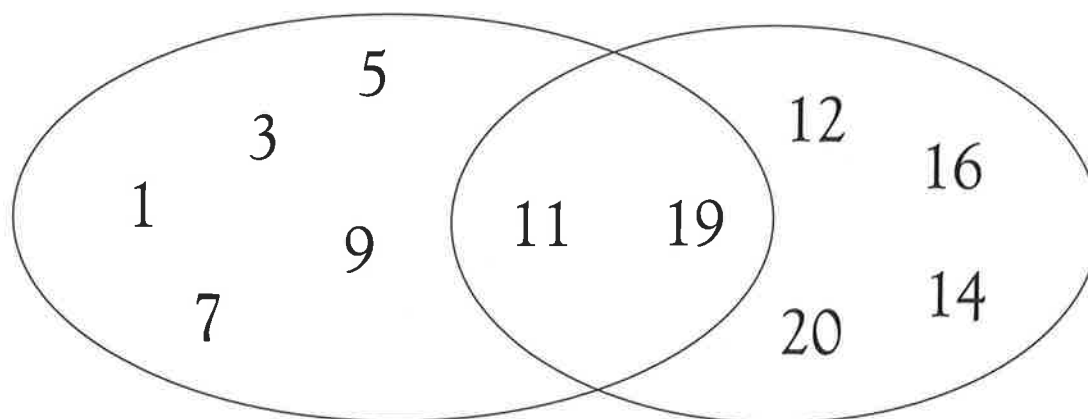
... straight sides?

... curved sides?

... straight and
curved sides?

Odd numbers

Numbers greater than ten



How many numbers are ...

... odd?

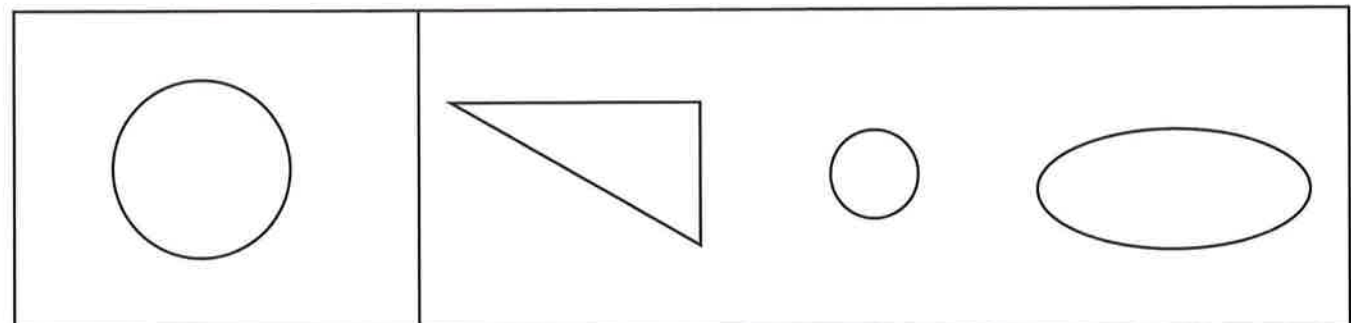
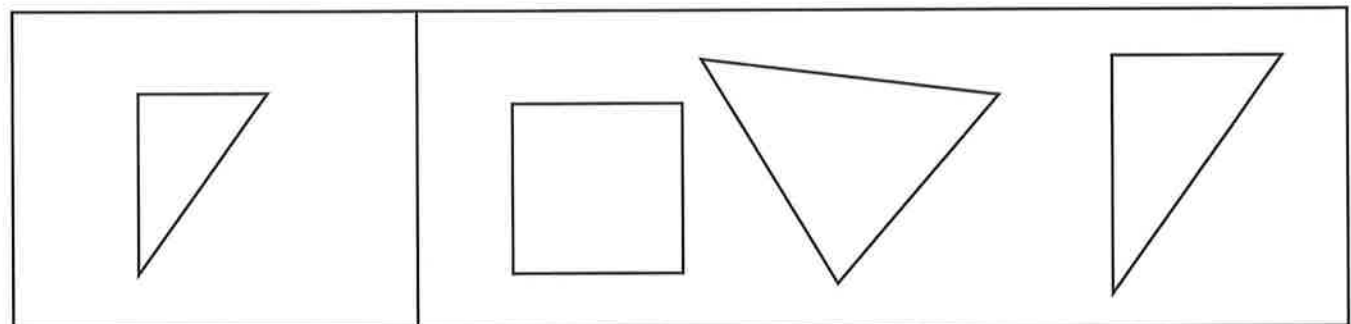
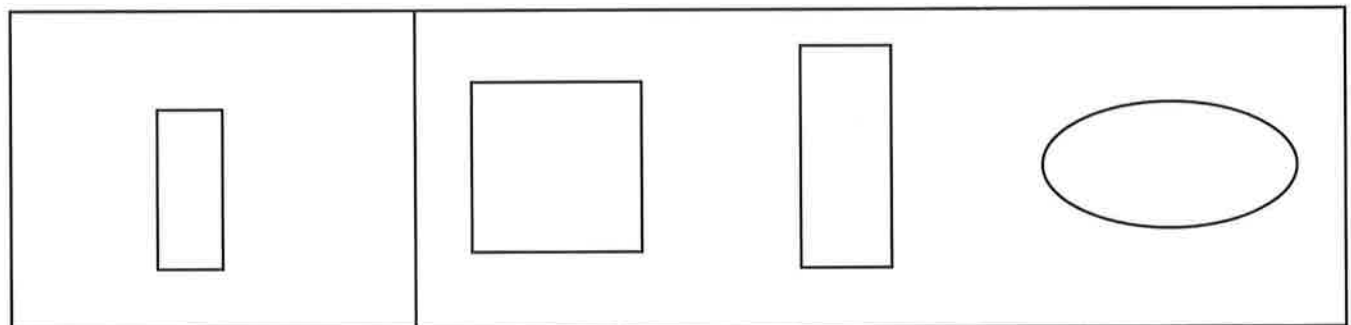
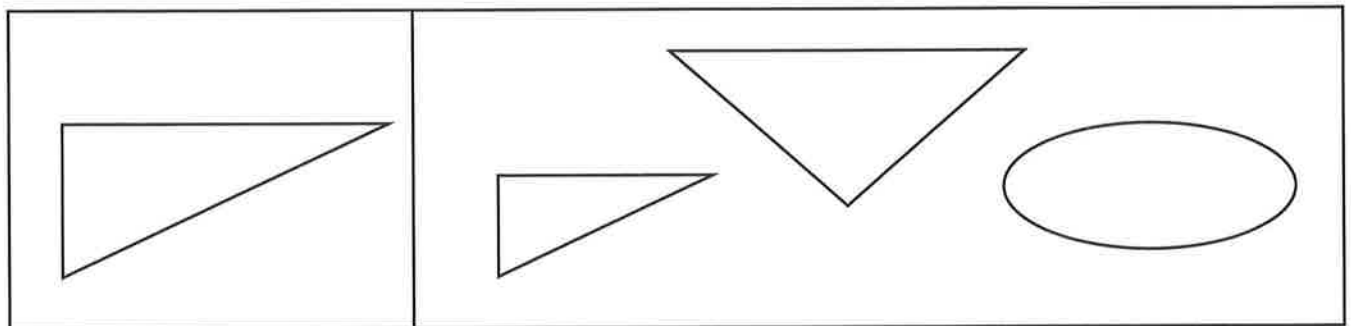
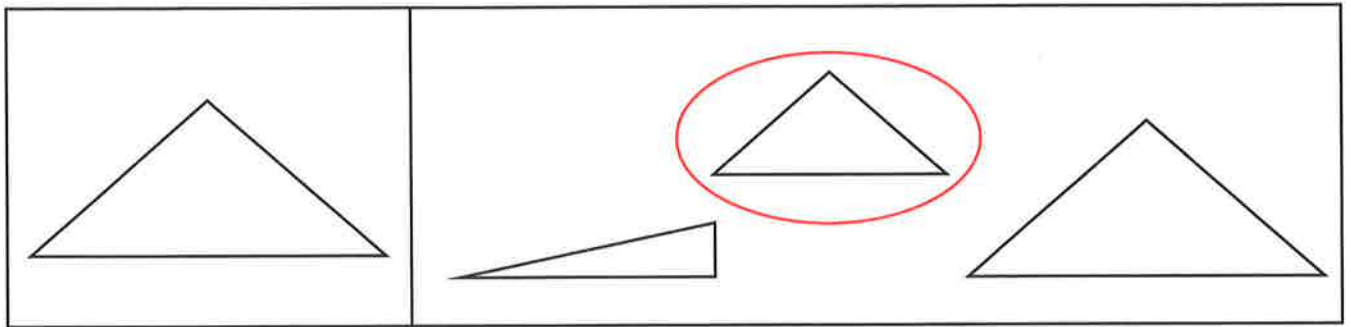
... more than ten?

... odd and more
than ten?



Similar shapes

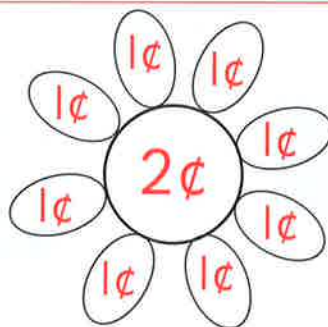
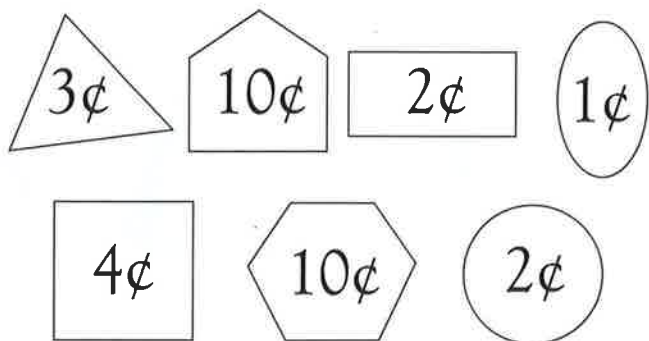
Ring the shape that is the same but a different size.



2-dimensional shapes

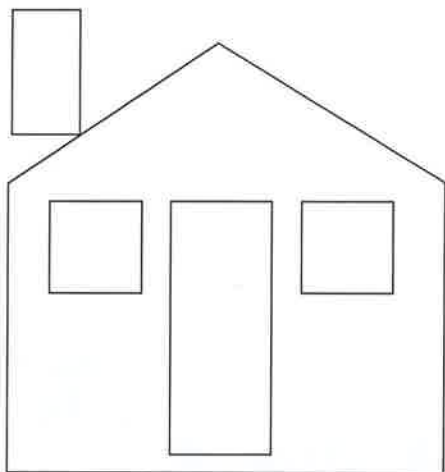


Add the costs to find the cost of each picture.

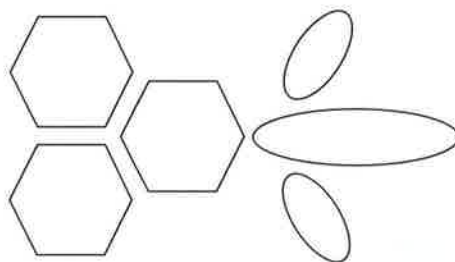


$$2¢ + 1¢ + 1¢ + 1¢ + 1¢ + 1¢ + 1¢ + 1¢ + 1¢ = 10¢$$

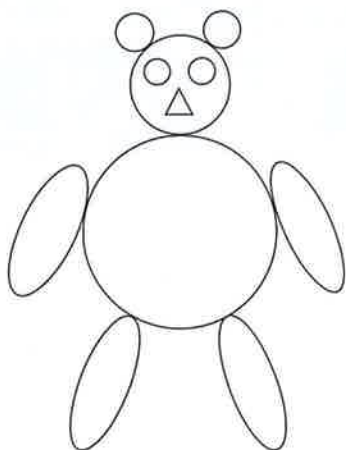
House



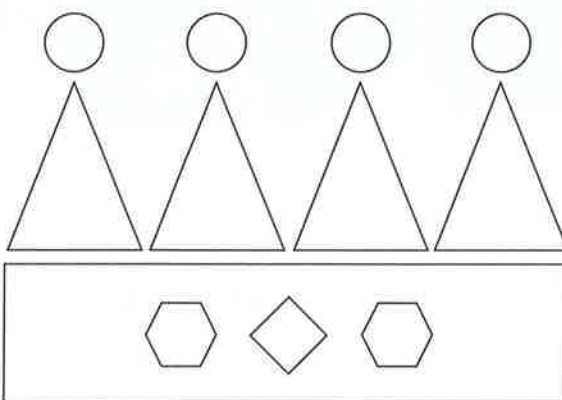
Bee and honeycomb



Teddy bear



Crown

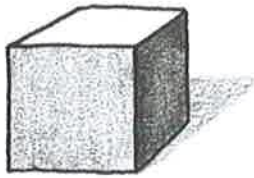




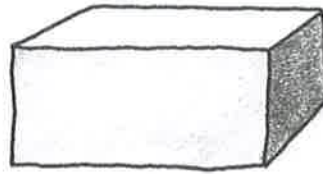
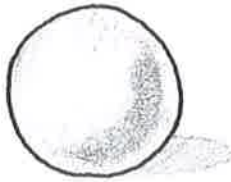
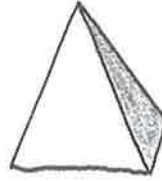
3-dimensional shapes

Label the 3-D shapes.

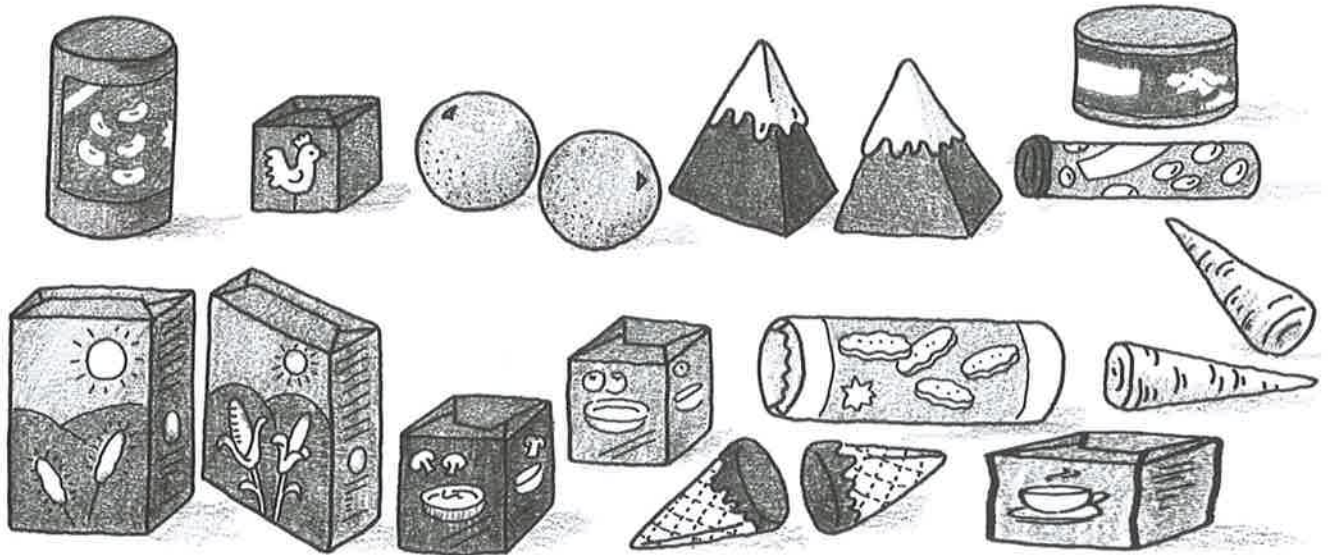
(cone, cylinder, pyramid, cube, sphere, rectangular prism)



cube



How many of each 3-D shape?



cube

3

rectangular
prism

cone

cylinder

pyramid

sphere

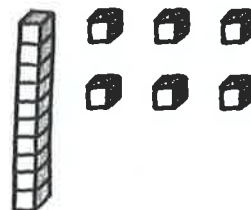
Read, write, and draw



Write the numbers and draw the pictures.

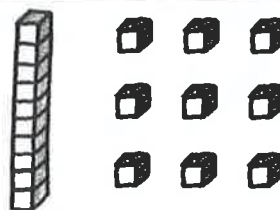
16

sixteen



19

nineteen



10

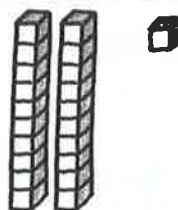
ten

12

twelve

21

twenty-one



7

seven

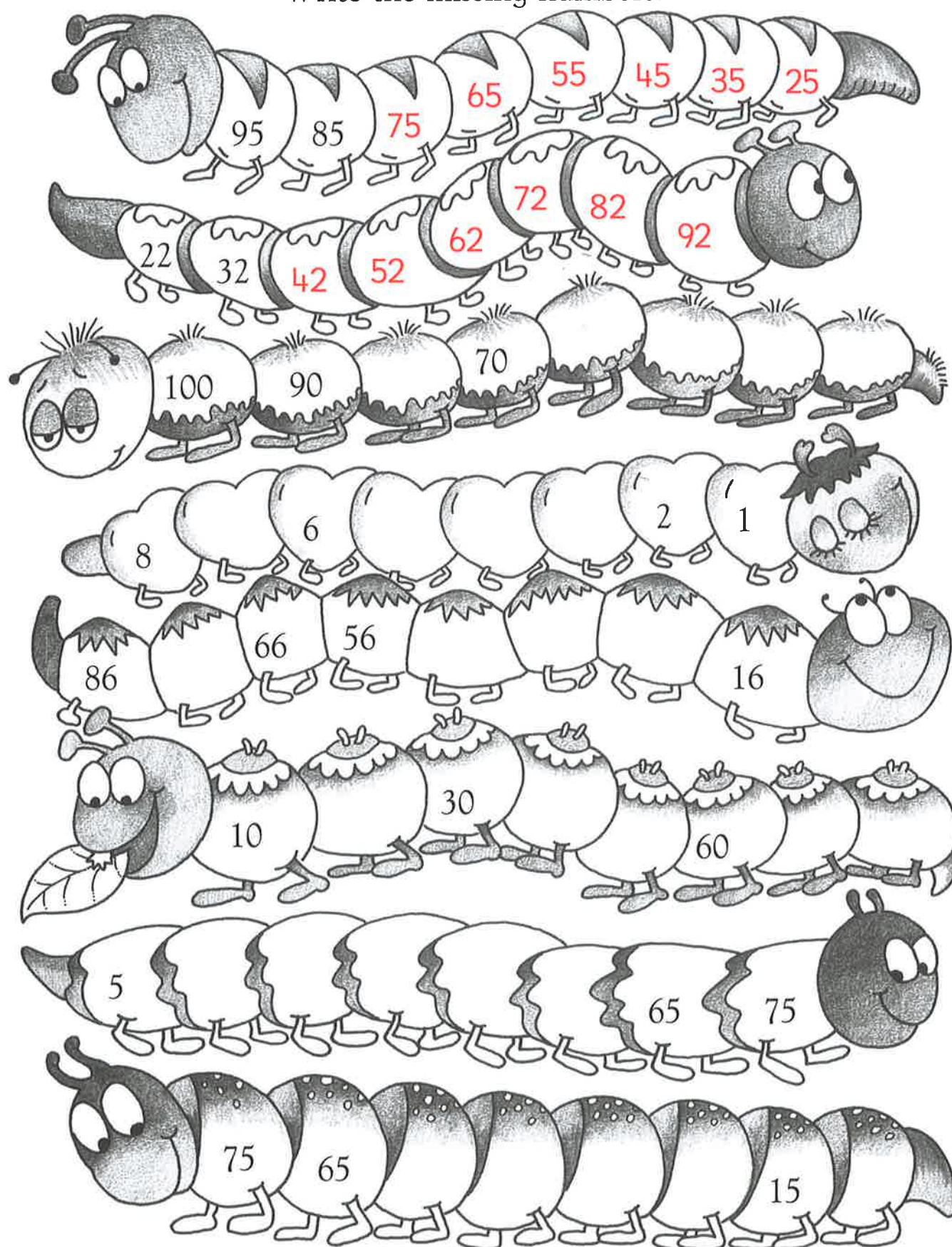
50

fifty



Counting











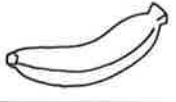




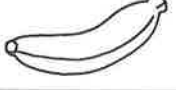




Count on forward or backward by 10s.
Write the missing numbers.



Bar graphs



Fruit

banana

apple

pineapple

orange

pear

How many pears are there?

4

How many bananas are there?



































The graph shows 6

The graph shows 2


How many more oranges are there than bananas?



How many apples and pears are there altogether?

Ellen's marbles

How many  does Ellen have?

How many  does Ellen have?

How many fewer  than  does she have?

How many  and  does she have altogether?



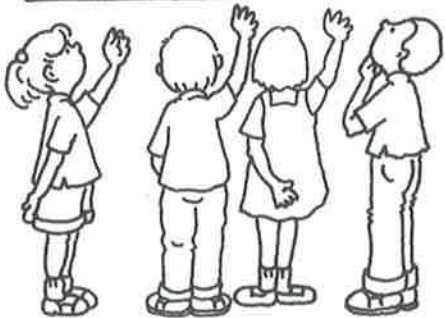
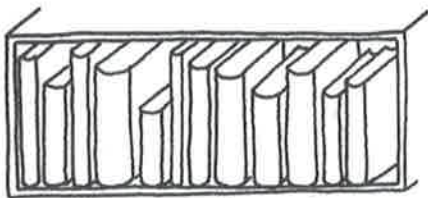
Subtraction

If each child eats 1 slice,
how many slices will be left?

5

If the children eat 6 slices,
how many slices will be left?

If the children eat 8 slices,
how many slices will be left?



If each child reads 1 book,
how many books will be left?

How many books will be left if the
children take 6 books altogether?

How many books will be left
if the children take 9 books?

If the dog buries 1 ball,
how many balls are left?

Write a subtraction sentence.

$$7 - 1 = 6$$

If the dog buries 3 balls,
how many balls are left?

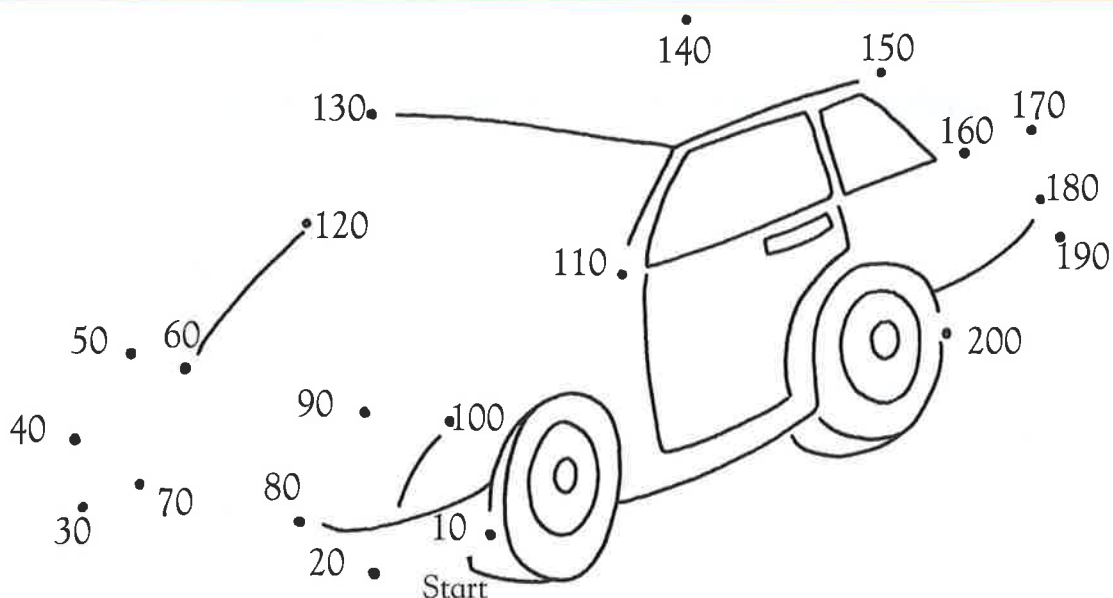
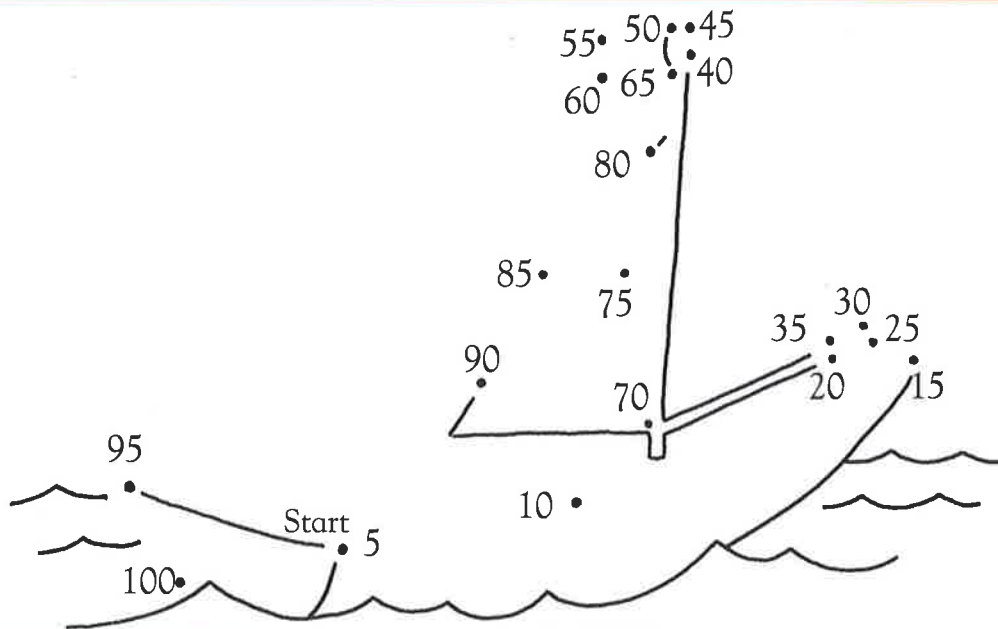
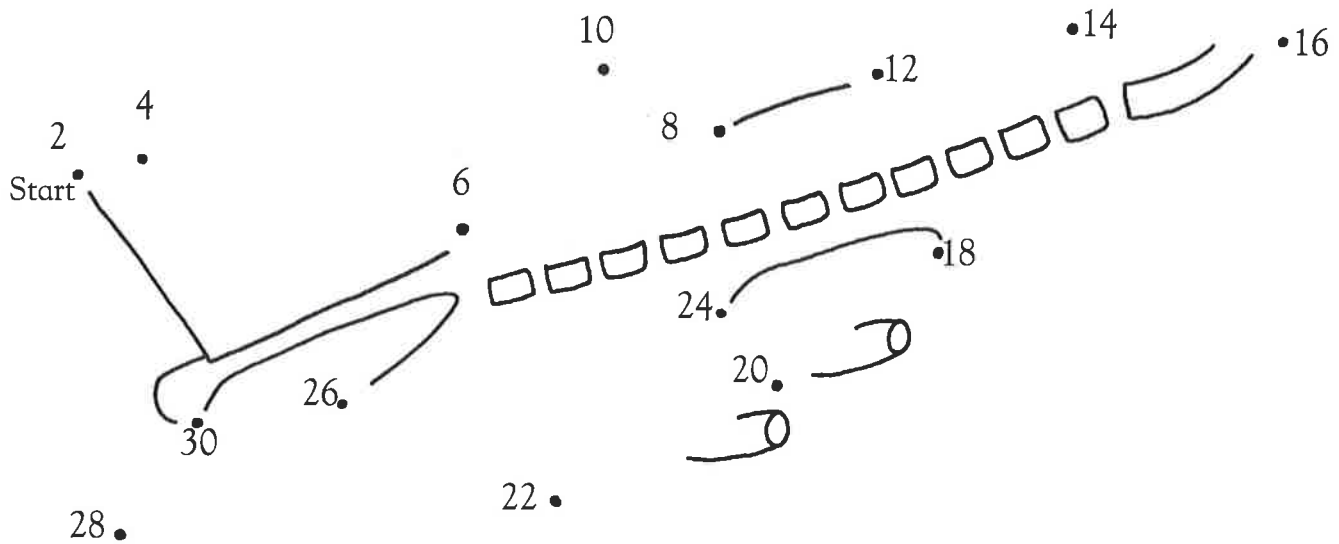
Write a subtraction sentence.



2s, 5s, and 10s



Count by 2s, 5s, and 10s to help you connect the dots.





Comparing

Complete the boxes.

2 less	number	2 more
51	53	55

number	between	number
96	97 98	99

number	between	number
20		24

3 less	number	3 more
	30	

2 less	number	2 more
	29	

number	between	number
18		22

number	between	number
31		34

10 less	number	10 more
	19	

5 less	number	5 more
	25	

number	between	number
40		45

number	between	number
39		42

5 less	number	5 more
	15	

Ordering



Find the totals.



11¢



Write the totals in order, greatest first.

1st

2nd

3rd 11¢

4th

5th

Find the totals.



40¢



Write the totals in order, smallest first.

1st

2nd

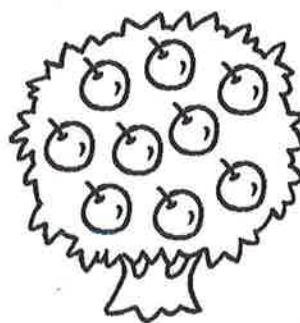
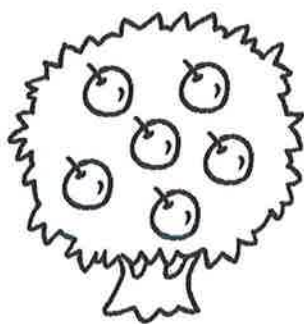
3rd

4th

5th 40¢

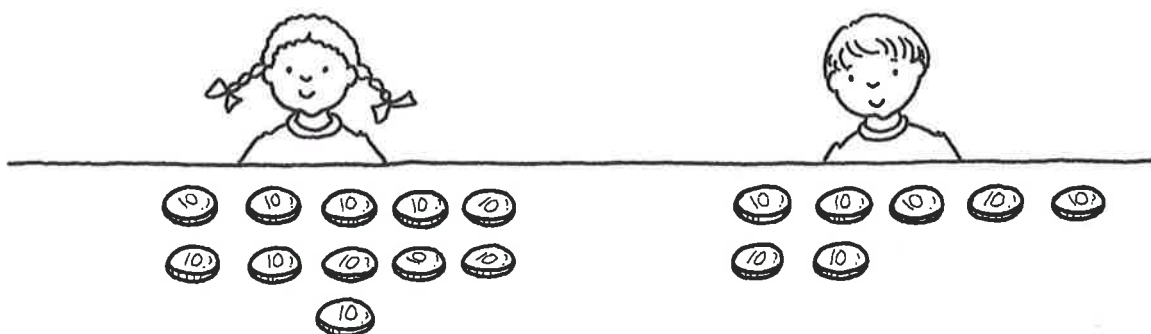


Subtraction



How many fewer apples are on the left tree than on the right tree?

Write the subtraction sentence.



How many more dimes does Tasha have than Juan?

What is the subtraction sentence?



How many fewer bricks are in the left stack than in the right stack?

What is the subtraction sentence?

Matching fractions

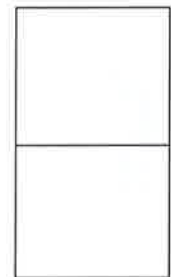
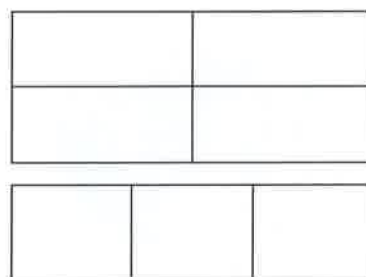
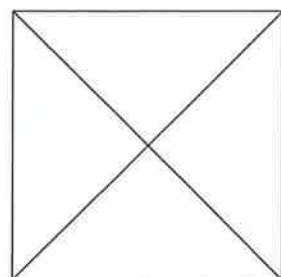
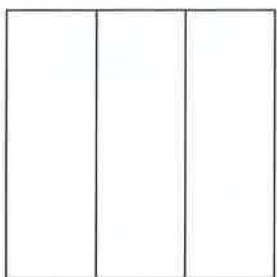
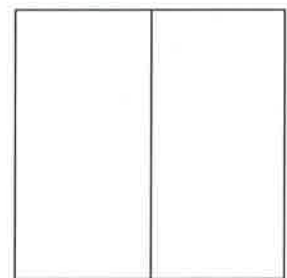
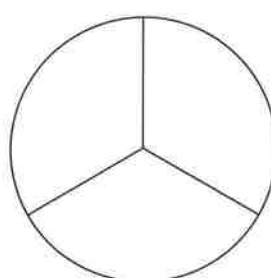
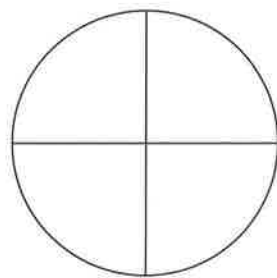
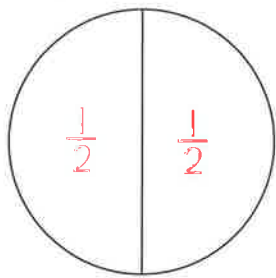


Colour all the matching squares.

Use yellow for halves.
Use orange for thirds.
Use green for fourths.

$\frac{1}{2}$			
	one third	one half	
	$\frac{1}{4}$		one fourth
$\frac{1}{3}$			

Label each part.



How many thirds in a whole?



How many fourths in a whole?



How many halves in a whole?



How many fourths in a half?

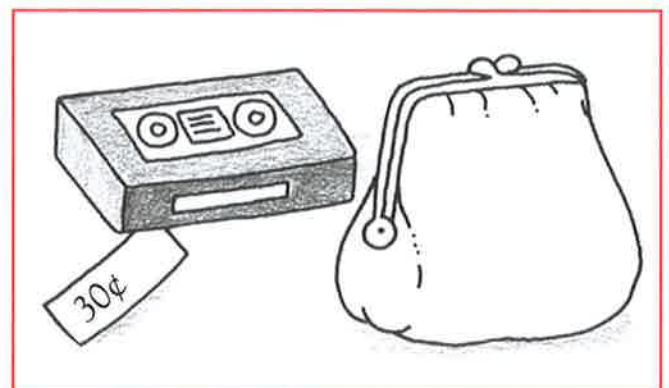
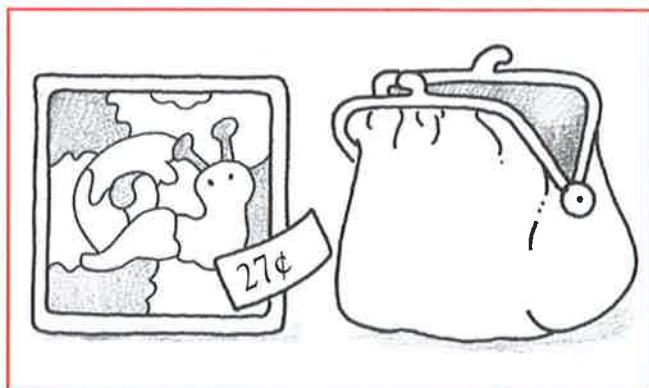
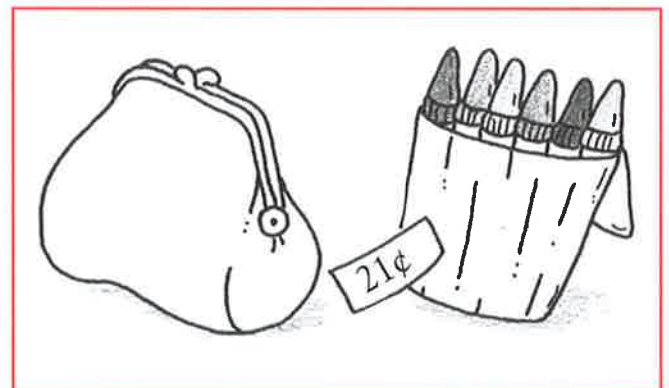
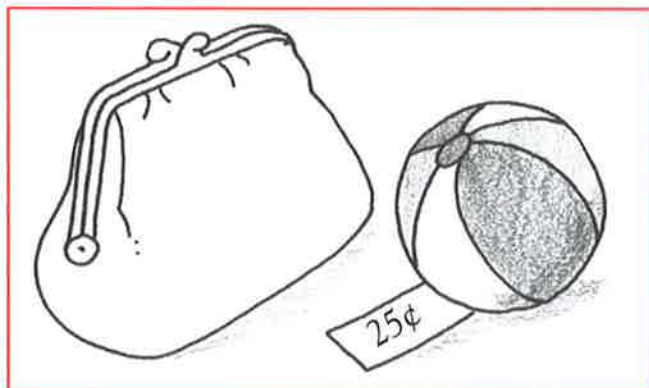
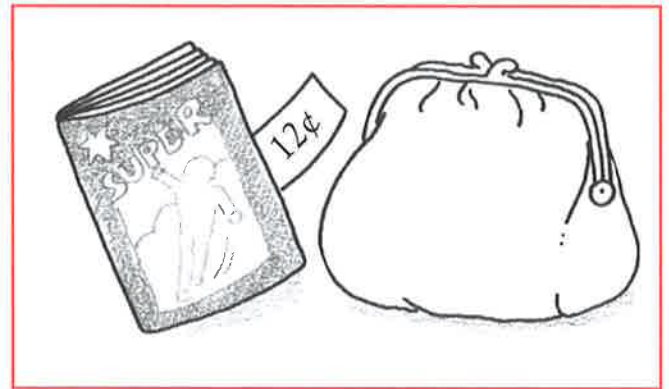
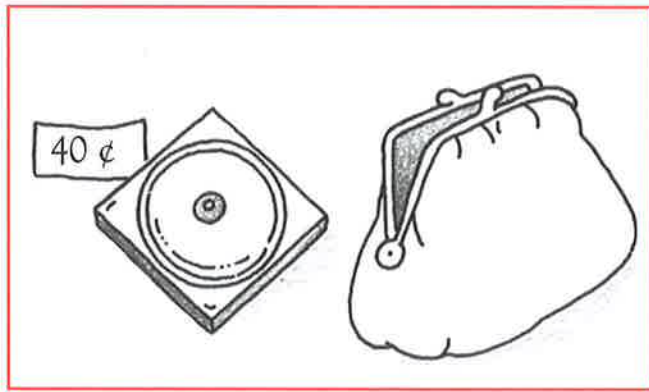
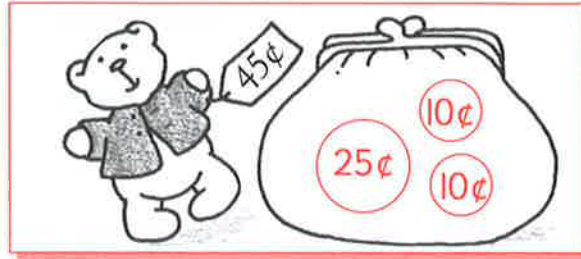




Money



You have only 3 coins in each purse. Draw the 3 coins that make the exact amount needed. You may use each coin more than once.



Fact families



Use the 3 numbers to write 4 different facts.

$6 + 7 = 13$

$7 + 6 = 13$

$13 - 7 = 6$

$13 - 6 = 7$

$16 + 4 = 20$

$+$ $=$

$-$ $=$

$-$ $=$

$6 + 5 = 11$

$7 + 8 = 15$

$8 + 12 = 20$

$10 + 8 = 18$

$8 + 9 = 17$

$9 + 7 = 16$

$14 + 6 = 20$

$11 + 8 = 19$



Adding money



Add the money. Write the totals in the right squares.

+	2¢	5¢	8¢	6¢
3¢				9¢
11¢				
29¢		34¢		
32¢				

+	2¢	4¢	6¢	9¢	3¢
17¢					
20¢				29¢	
33¢	35¢				
41¢					

Using doubles



Use the doubles to find the answers.

$6 + 6 = 12$	$10 + 10 = 20$
$6 + 7$ $6 + 6 + 1 = 13$	$10 + 11$ $10 + 10 + 1 = 21$
$6 + 5$ $6 + 6 - 1 = 11$	$10 + 9$ $10 + 10 - 1 = 19$

Use doubles to find the answers.

$4 + 4 = \square$	$4 + 5 = \square + \square + 1 = \square$
	$4 + 3 = \square + \square - 1 = \square$
$7 + 7 = \square$	$7 + 8 = \square + \square + 1 = \square$
	$7 + 6 = \square + \square - 1 = \square$
$8 + 8 = \square$	$8 + 9 = \square + \square + 1 = \square$
	$8 + 7 = \square + \square - 1 = \square$

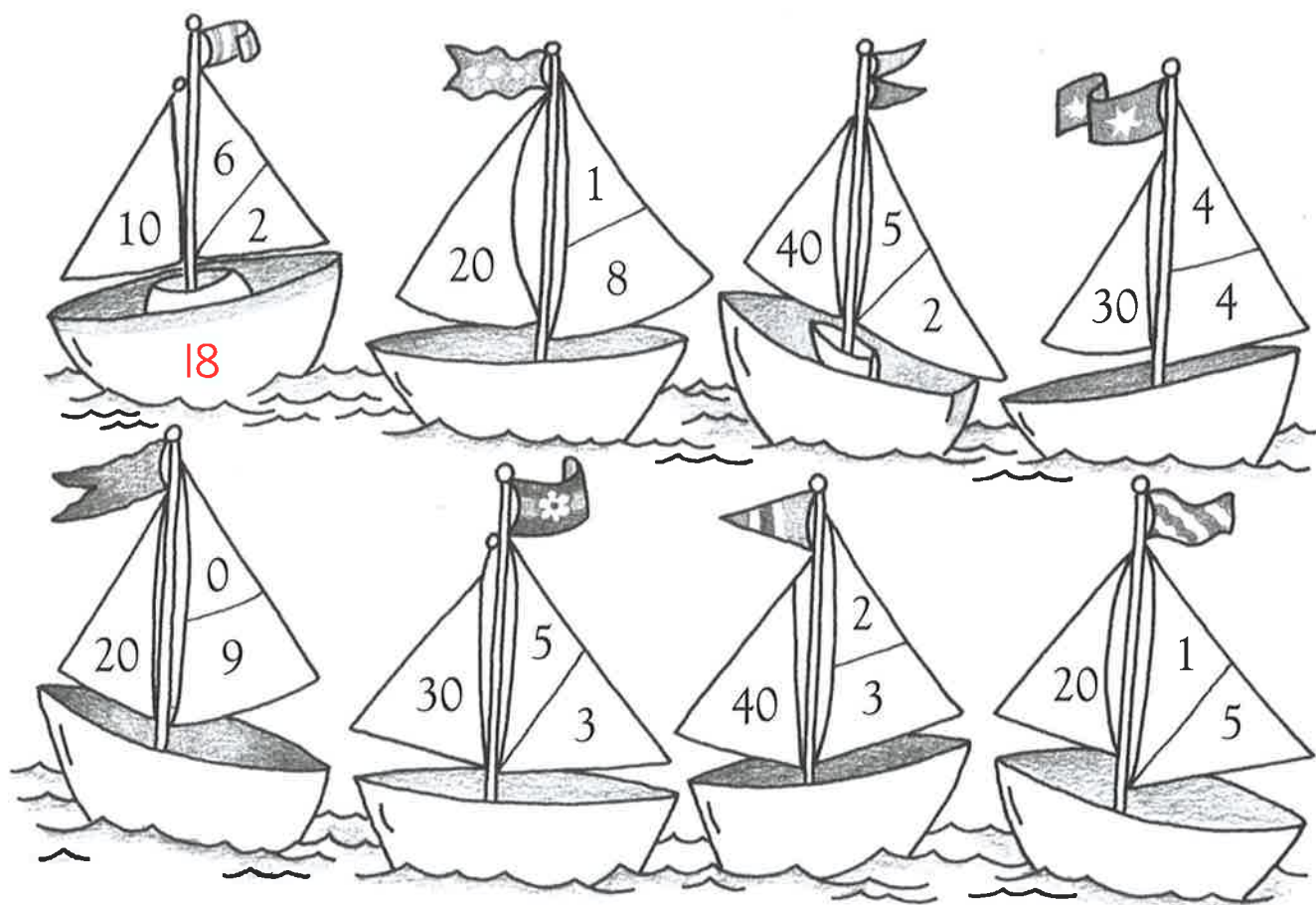
Double your doubles.

$\boxed{1}$ double it $\boxed{2}$ double it $\boxed{4}$	$\boxed{4}$ double it \square double it \square
$\boxed{2}$ double it \square double it \square	$\boxed{5}$ double it \square double it \square
$\boxed{3}$ double it \square double it \square	$\boxed{6}$ double it \square double it \square



Adding up

Add the numbers on the sails. Write the totals on the boats.



Add the numbers. Write the totals.

$3 + 4 + 10 =$

17

$9 + 0 + 20 =$

$2 + 40 + 3 =$

$5 + 40 + 2 =$

$20 + 7 + 2 =$

$4 + 5 + 20 =$

$30 + 4 + 3 =$

$1 + 30 + 7 =$

$40 + 8 + 1 =$

$$\begin{array}{r} 30 \\ 1 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ 2 \\ + 4 \\ \hline \end{array}$$

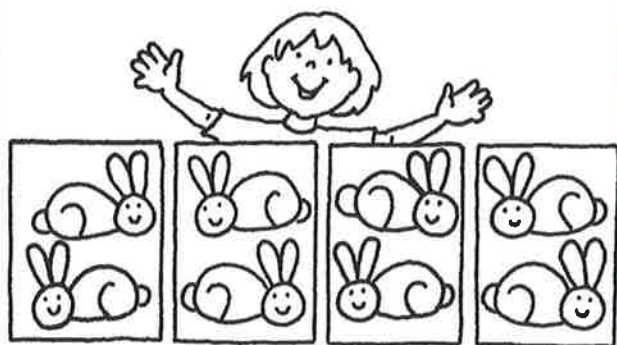
$$\begin{array}{r} 40 \\ 5 \\ + 0 \\ \hline \end{array}$$

Count by 2s



Draw the pictures. Count by 2s. Write the totals.

Sasha has 4 hutches. There are 2 rabbits in each hutch.



8 rabbits

Joel has 3 boxes. There are 2 pencils in each box.

Mrs. Reaves has 6 flower pots. There are 2 flowers in each pot.

Mr. Hastings has 5 fish. Each fish has 2 eyes.

Draw the pictures, then write the answers.

There are 6 birds. There are 2 birds in each tree. How many trees are there?

There are 8 tarts. There are 2 tarts on each plate. How many plates are there?



Addition

Add to find each sum.

$$\begin{array}{r} 2 \\ +13 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 4 \\ +10 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 18 \\ +11 \\ \hline 29 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 1 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +9 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +11 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ +5 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ +11 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ +20 \\ \hline \end{array}$$

Addition



Add to find each sum.

$$\begin{array}{r} 5 \\ +1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 14 \\ +24 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 50 \\ +10 \\ \hline 60 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 2 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +3 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ +1 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ +10 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ +40 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ +33 \\ \hline \end{array}$$

$$\begin{array}{r} 29 \\ +20 \\ \hline \end{array}$$

$$\begin{array}{r} 61 \\ +35 \\ \hline \end{array}$$

$$\begin{array}{r} 74 \\ +12 \\ \hline \end{array}$$

Michael has 21 fish. His dad gives him 7 more fish.
How many fish does Michael have?

Sonia read 13 books one month. She read 6 books the
next month. How many books did she read in all?



Addition and subtraction

Write the missing numbers.

$$? + 8 = 12$$

$$7 - ? = 1$$

$$4 + 8 = 12$$

$$7 - 6 = 1$$

Write the missing numbers.

$$15 - \square = 10$$

$$\square + 3 = 6$$

$$8 - \square = 2$$

$$9 + \square = 11$$

$$\square - 8 = 0$$

$$\square + 5 = 14$$

$$\square + 3 = 10$$

$$6 - \square = 2$$

$$\square - 10 = 7$$

$$\square - 4 = 1$$

$$2 + \square = 7$$

$$1 + \square = 4$$

$$14 - \square = 7$$

$$\square + 1 = 9$$

$$3 + \square = 12$$

$$8 + \square = 14$$

$$\square - 1 = 2$$

$$12 - \square = 6$$

$$18 - \square = 9$$

$$\square + 6 = 11$$

$$\square - 1 = 0$$

$$\square - 7 = 4$$

$$4 + \square = 13$$

$$\square + 5 = 8$$

$$\square + 3 = 5$$

$$16 - \square = 10$$

$$8 + \square = 18$$

$$5 + \square = 12$$

$$\square + 4 = 0$$

$$9 - \square = 6$$

Real-life problems



Look at the picture. Answer the questions.



What time is it?

Today is Friday. What day was it yesterday?

How many cupcakes can each person have?

If half of the apples were eaten, how many would be left?

If each person had 2 drinks, how many drinks would there be altogether?

How many more sandwiches are there than apples?

If 13 candies were eaten, how many would be left?

Each package contains 2 presents. How many presents are there altogether?

What shape are the sandwiches?

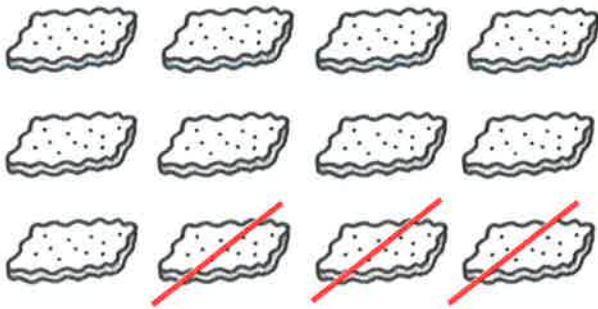
Is there an odd or an even number of chairs?



Real-life problems

Complete the pictures, and then write the answers.

There were 12 biscuits. James ate 3.
How many were left?

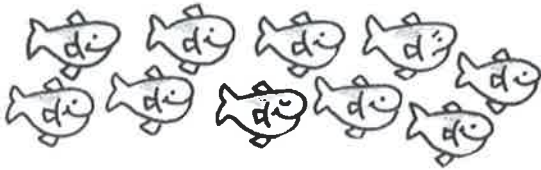


9

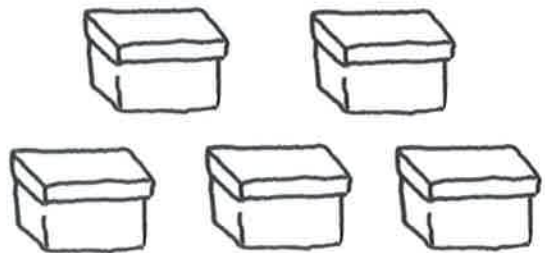
Share 9 marbles equally among
3 people. How many marbles will
each have?



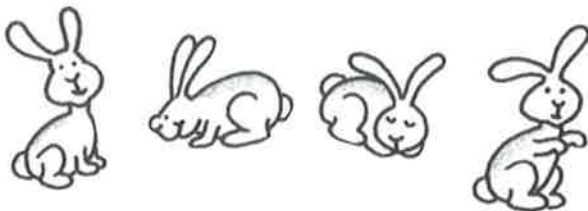
Susie has ten fish. She is given 11 more
for her birthday. How many fish does she
have altogether?



Joe had 5 boxes. He had 3 pencils in
each box. How many pencils did he
have altogether?



If you share 8 carrots equally among 4
rabbits, how many carrots will each have?



Mom had 16 cups, but she broke 9 of
them. How many cups does she have left?



Addition



Find each sum.

$$\begin{array}{r} 40 \\ + 30 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 80 \\ + 80 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 20 \\ + 50 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 30 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ + 50 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ + 40 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ + 30 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 80 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ + 40 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 30 \\ + 20 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 70 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \\ + 40 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 40 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ + 30 \\ \hline \end{array}$$

Find each sum.

$70 + 20 = 90$

$80 + 10 = \square$

$10 + 40 = \square$

$60 + 10 = \square$

$30 + 30 = \square$

$50 + 10 = \square$

$20 + 70 = \square$

$70 + 10 = \square$

$10 + 20 = \square$

$20 + 60 = \square$

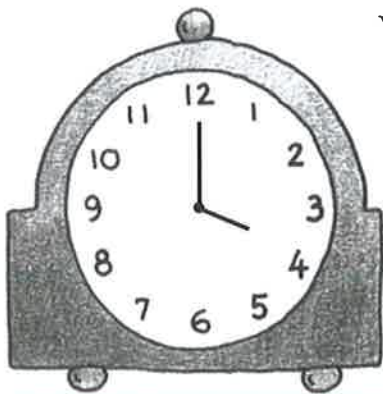
$40 + 40 = \square$

$10 + 80 = \square$



Clocks and watches

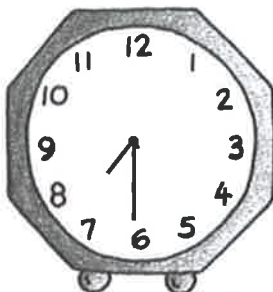
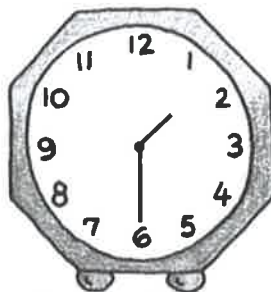
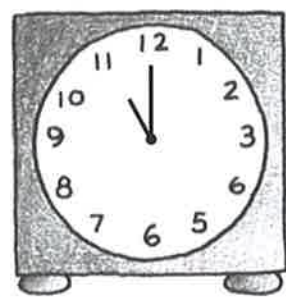
Write the times.



4 o'clock



half past 10



Puzzles



Read the clues and solve the puzzle.

I am a number between 20 and 30. If you count by fives, you will say my name. Who am I? 25

Read the clues and solve each puzzle.

I am an even number. I am between 6 and 9. Who am I?

$7 + 7$ is less than I am. $7 + 9$ is greater than I am. Who am I?

I am a number less than 10. If you add me to myself, you will find a number greater than 16. Who am I?

$16 - 10$ is less than I am. $16 - 8$ is greater than I am. Who am I?

I am a number between 7 and 12. If you count by threes, you will say my name. Who am I?

I am an odd number. I am between 11 and 14. Who am I?

If you subtract me from 14, you will find a number greater than 11. I am an odd number. Who am I?

If you add me to 50, you will find a number less than 70. If you count by tens you will say my name. Who am I?

If you add me to 1, you will find an odd number. I am less than 2. Who am I?



Tables

Water animals

	Has 4 legs	Eats insects	Has a furry coat	Lays eggs
Frog	yes	yes	no	yes
Newt	yes	yes	no	yes
Otter	yes	no	yes	no

Use the table to answer the questions.

What does the insects frog eat? Who lays eggs? _____

Who has a furry coat? _____ Does the otter _____ eat insects?

Who has a furry coat and does not lay eggs? _____

School friends

	Age	Hobby	Pet	Favourite colour
Dean	7	Computers	Rat	Black
Joe	6	Reading	Rabbit	Purple
Taif	7	Judo	Cat	Orange
Maddie	8	Computers	Parrot	Green

Use the table to answer the questions.

Whose favourite colour is black? Dean's Who is the oldest? _____

Who has judo for a hobby? _____ What kind of pet does Joe have? _____

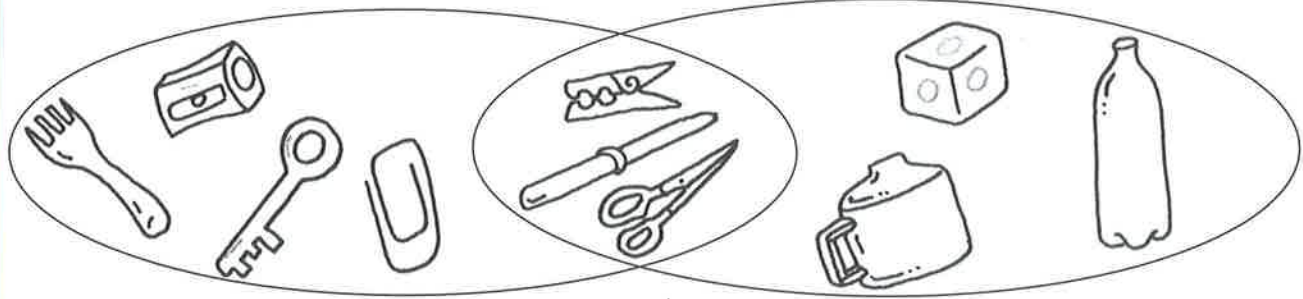
Who likes computers and has a parrot? _____ Who is seven and does not have a rat? _____

Venn diagrams



Things made with metal

Things made with plastic



How many things are ...?

made with plastic?

6

made with metal?

7

made with metal and plastic?

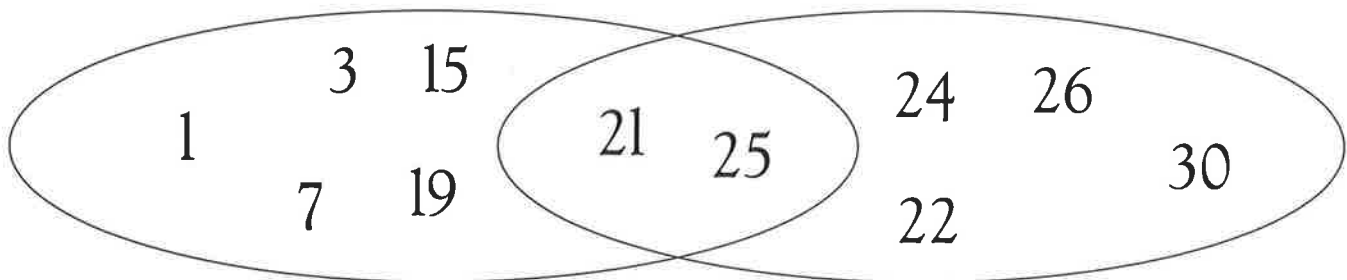
3

not made with plastic?

4

Odd numbers

Numbers greater than 20



How many numbers are ...?

odd?

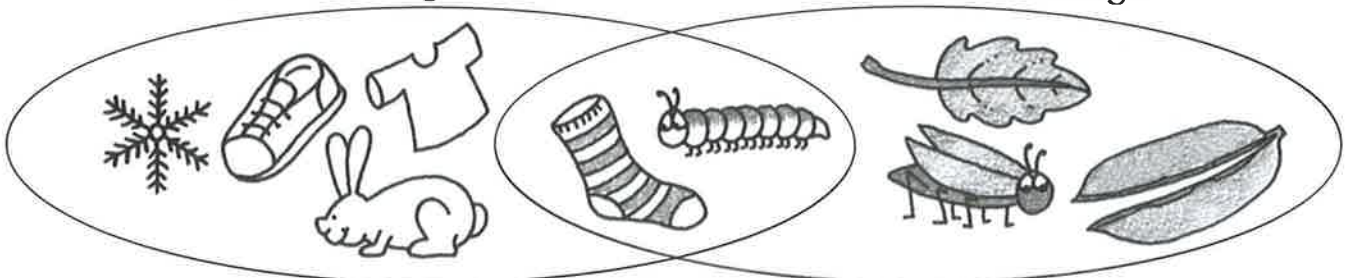
greater than 20?

odd and greater than 20?

not odd?

White things

Green things



How many things are ...?

green?

white?


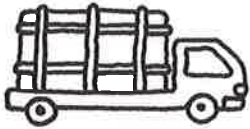
green and white?

not green?





Appropriate units of measure



Which unit would you use to measure the length of each item? Circle the answer.

	<u>centimetres</u> kilometres kilograms litres
	kilometres grams kilograms metres

Which unit would you use to measure the weight of each item? Circle the answer.

	centimetres kilometres kilograms grams
	kilometres kilograms litres grams

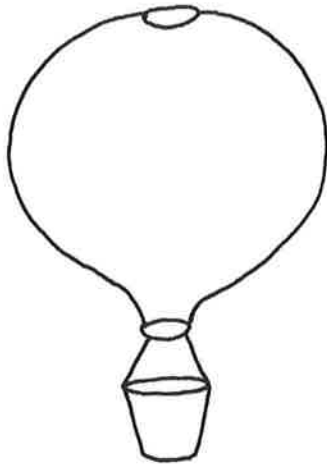
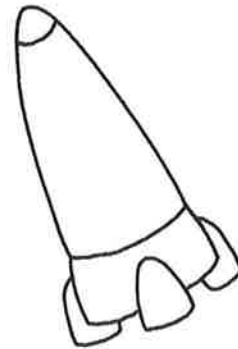
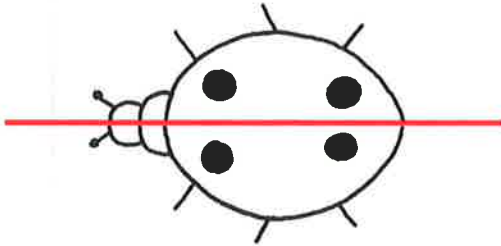
Which unit would you use to measure how much liquid each container holds? Circle the answer.

	tonnes centimetres millilitres kilograms
	kilometres centimetres grams litres

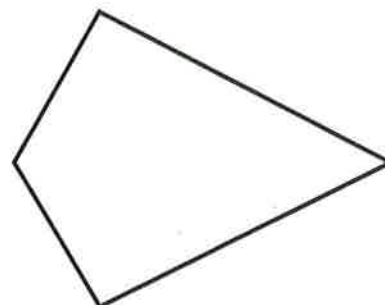
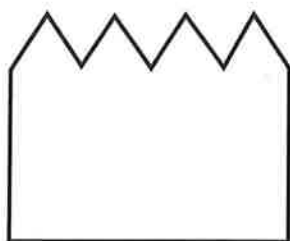
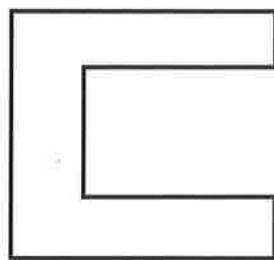
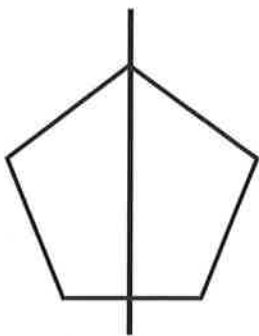
Symmetry



Draw a line of symmetry on each picture.



Draw lines of symmetry on these shapes.

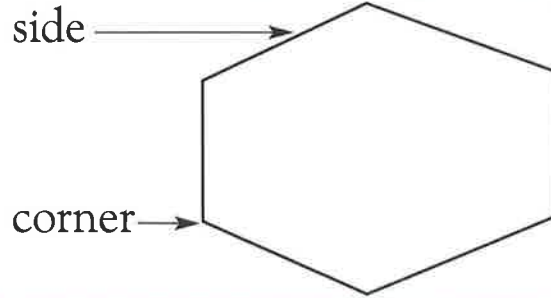




2-dimensional shapes

Write the name of the shape. Count the corners and sides.

Name hexagon



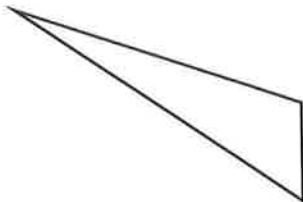
Sides

6

Corners

6

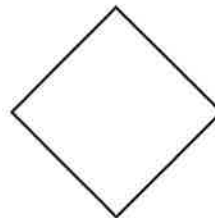
Name _____



Sides

Corners

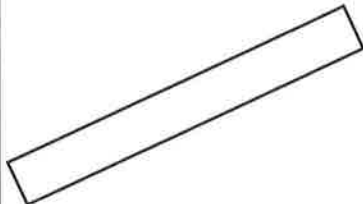
Name _____



Sides

Corners

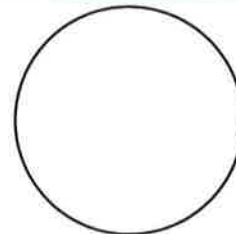
Name _____



Sides

Corners

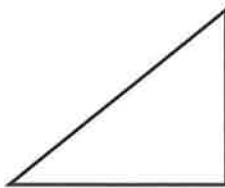
Name _____



Sides

Corners

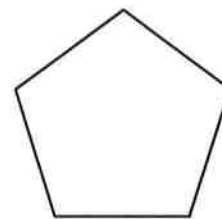
Name _____



Sides

Corners

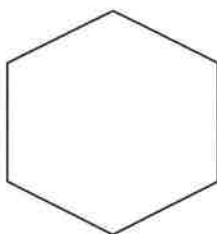
Name _____



Sides

Corners

Name _____



Sides

Corners

Name _____

































Sides

Corners



















































Equal value



Circle the coins that add up to the amount shown.

7¢	6¢	15¢	8¢	20¢
				
				
				
				
				
				

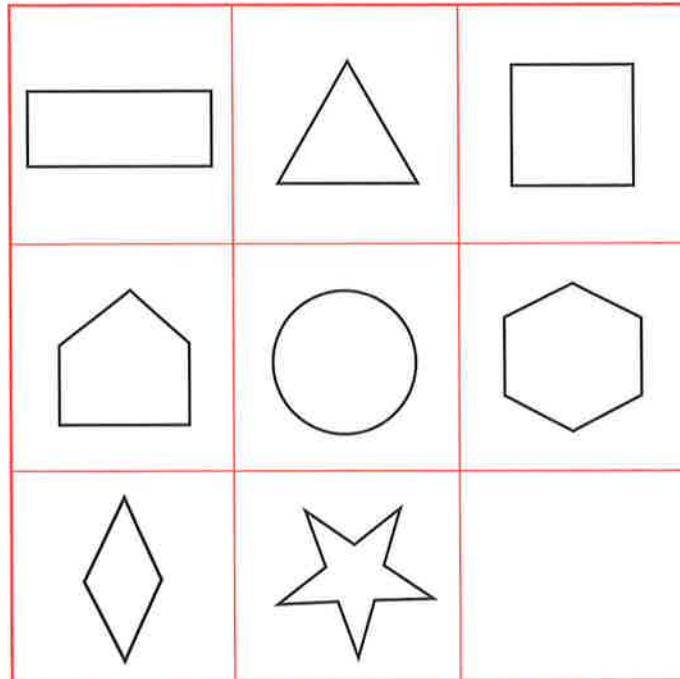
Write the amounts. Tell if they are equal.



Shapes and places

Look at the shapes and answer the questions.



circle

hexagon

diamond

pentagon

rectangle

square

star

triangle

Which shape is ...

underneath the circle? _____

to the **left** of the triangle? _____

above the hexagon? _____

below the pentagon? _____

between the rectangle and the diamond? _____

diagonally above the empty space? _____

beside the diamond? _____

on top of the diamond? _____

between the triangle and the star? _____

on the **right-hand end** of the top row? _____




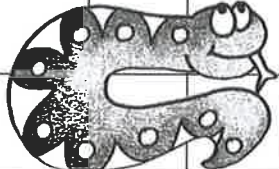

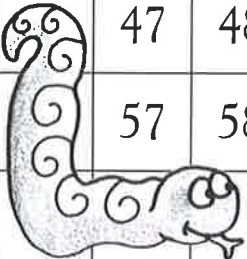
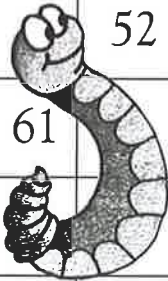

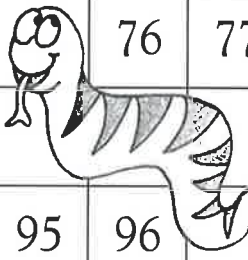

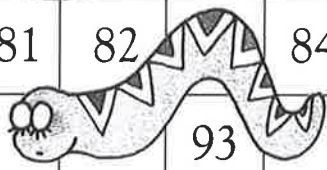
in the **centre** of the grid? _____

in the **top left-hand corner**? _____


Numbers



Which numbers are the snakes hiding?


1	2	3	4	5		7	8	9		
11	12	13		15			18	19		
21	22	23	24		26	27	28			
31					35	36		38	39	40
41					45					50
	52	53	54	55		57	58	59	60	
61		63	64	65				69	70	
		73	74			76	77	78	79	80
81	82		84				88			
		93		95	96		98			

6

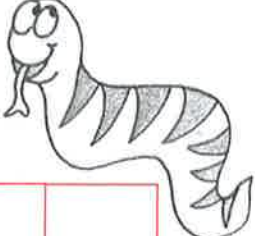



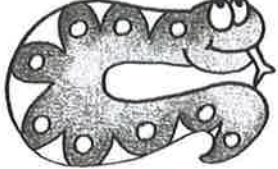


16

17







Counting by 1s and 10s

Finish each row.

Count by 1s. 24 25 26 27 28 29

Count by 10s. 31 41 51 61 71 81

Finish each row. Count by 1s.

17	18	19					
36	37	38					
69	70	71					
45	46	47					
85	86					91	

Finish each row. Count by 10s.

10	20	30					
12	22	32					
15	25	35					
16	26	36					
17	27		47				
19			49				

Finish each row. Count by 1s and 10s.

8	9	10					
18	28	38					
4	5	6					
14	24	34					
0	1						7

Counting by 2s



Count by 2s. 12 14 16 18 20 22

Count by 2s. 31 33 35 37 39 41

Finish each row. Count by 2s.

17	19	21					
36	38	40					
72	74	76					
43	45	47					
14	16					26	
39		43					53

Finish each row. Count by 2s.

20							34
75							89
44							58
69							83
31							45
88							102

Finish each row. Count by 2s.

				28			34
			53			59	
					87		91
	48		52				
					97	99	
		50			56		

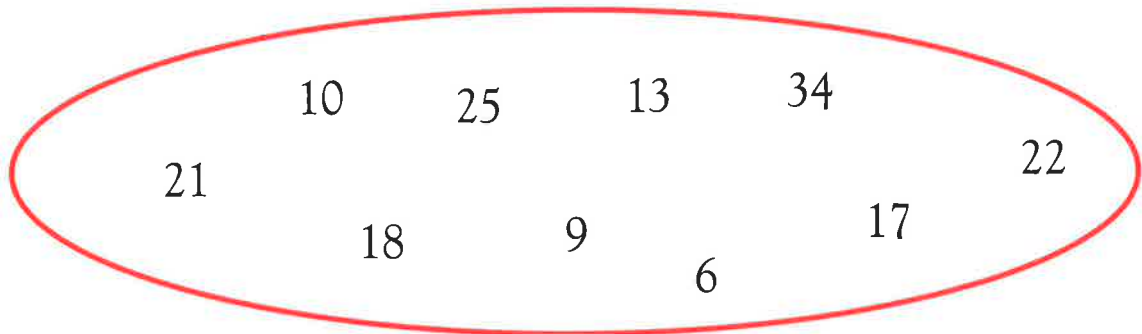


Odd and even

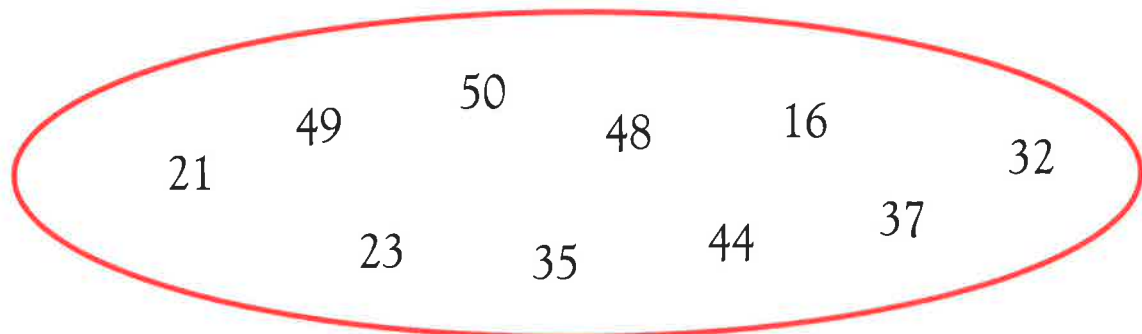
Numbers ending in 0 2 4 6 8 are called even numbers.

Numbers ending in 1 3 5 7 9 are called odd numbers.

Circle the numbers that are even.



Circle the numbers that are odd.



Write the odd numbers between 30 and 50.

Write the even numbers between 21 and 41.

More and less



Which number is 1 more than 49?

50

Which number is 10 less than 64?

54

Write the number that is 1 more than each of these.

35	<input type="text"/>	78	<input type="text"/>	69	<input type="text"/>	53	<input type="text"/>	9	<input type="text"/>	54	<input type="text"/>
41	<input type="text"/>	24	<input type="text"/>	67	<input type="text"/>	40	<input type="text"/>	36	<input type="text"/>	73	<input type="text"/>

Write the number that is 1 less than each of these.

52	<input type="text"/>	18	<input type="text"/>	20	<input type="text"/>	76	<input type="text"/>	37	<input type="text"/>	50	<input type="text"/>
40	<input type="text"/>	54	<input type="text"/>	23	<input type="text"/>	100	<input type="text"/>	31	<input type="text"/>	83	<input type="text"/>

Write the number that is 10 more than each of these.

46	<input type="text"/>	21	<input type="text"/>	86	<input type="text"/>	53	<input type="text"/>	16	<input type="text"/>
18	<input type="text"/>	29	<input type="text"/>	39	<input type="text"/>	38	<input type="text"/>	90	<input type="text"/>
60	<input type="text"/>	81	<input type="text"/>	59	<input type="text"/>	23	<input type="text"/>	80	<input type="text"/>

Write the number that is 10 less than each of these.

56	<input type="text"/>	75	<input type="text"/>	86	<input type="text"/>	18	<input type="text"/>	23	<input type="text"/>
68	<input type="text"/>	45	<input type="text"/>	50	<input type="text"/>	40	<input type="text"/>	80	<input type="text"/>
60	<input type="text"/>	90	<input type="text"/>	60	<input type="text"/>	70	<input type="text"/>	10	<input type="text"/>

Write the number that is 10 more than each of these.

65	<input type="text"/>	76	<input type="text"/>
90	<input type="text"/>	60	<input type="text"/>

Write the number that is 10 less than each of these.

50	<input type="text"/>	10	<input type="text"/>
80	<input type="text"/>	75	<input type="text"/>



Fact families

Finish the fact family for each group of numbers.



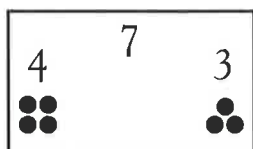
$5 + 4 = 9$

$4 + 5 = 9$

$9 - 4 = 5$

$9 - 5 = 4$

Finish the fact family for each group of numbers.

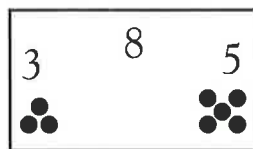


$4 + 3 = \square$

$3 + 4 = \square$

$7 - 3 = \square$

$7 - 4 = \square$

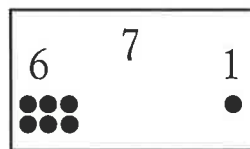


$3 + 5 = \square$

$5 + 3 = \square$

$8 - 5 = \square$

$8 - 3 = \square$

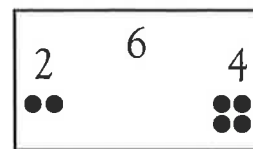


$6 + 1 = \square$

$1 + 6 = \square$

$7 - 1 = \square$

$7 - 6 = \square$

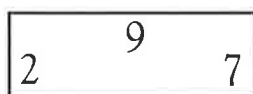


$2 + 4 = \square$

$4 + 2 = \square$

$6 - 4 = \square$

$6 - 2 = \square$



$2 + 7 = \square$

$7 + 2 = \square$

$9 - 2 = \square$

$9 - 7 = \square$



$3 + 2 = \square$

$2 + 3 = \square$

$5 - 2 = \square$

$5 - 3 = \square$

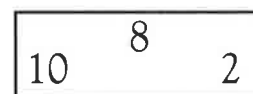


$3 + 1 = \square$

$1 + 3 = \square$

$4 - 1 = \square$

$4 - 3 = \square$

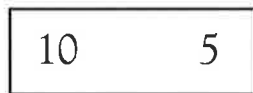


$2 + 8 = \square$

$8 + 2 = \square$

$10 - 2 = \square$

$10 - 8 = \square$



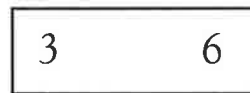
$5 + 5 = \square$

$10 - 5 = \square$



$4 + 4 = \square$

$8 - 4 = \square$



$3 + 3 = \square$

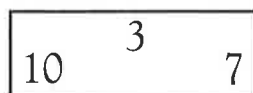
$6 - 3 = \square$



$2 + 2 = \square$

$4 - 2 = \square$

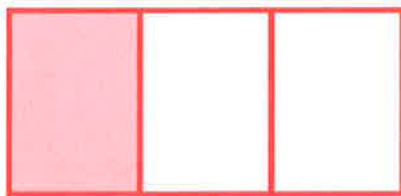
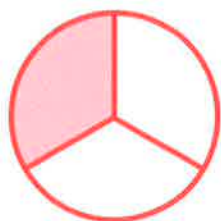
Write the fact family for each group of numbers.



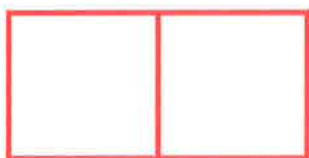
Fractions



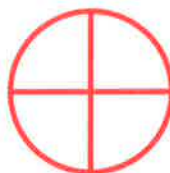
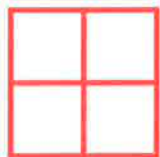
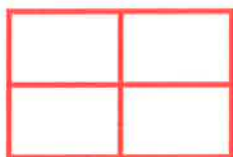
Colour one-third ($\frac{1}{3}$) of each shape.



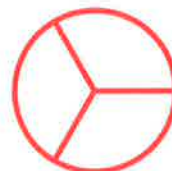
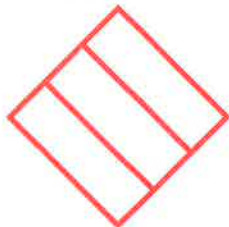
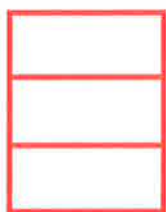
Colour one-half ($\frac{1}{2}$) of each shape.



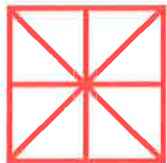
Colour one-fourth ($\frac{1}{4}$) of each shape.



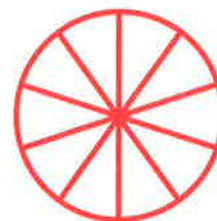
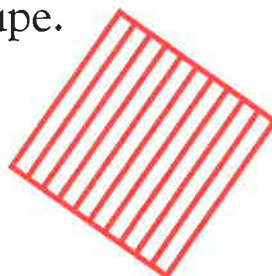
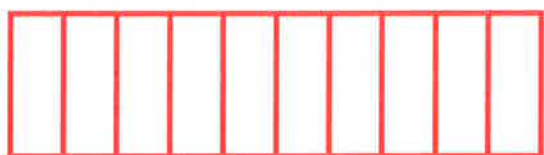
Colour one-third ($\frac{1}{3}$) of each shape.



Colour one-eighth ($\frac{1}{8}$) of each shape.



Colour one-tenth ($\frac{1}{10}$) of each shape.





Adding

Write the answers between the lines.

$$\begin{array}{r} 13 \\ + 16 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 11 \\ + 5 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 14 \\ + 5 \\ \hline 19 \end{array}$$

Write the answers between the lines.

$$\begin{array}{r} 4 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 10 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ + 9 \\ \hline \end{array}$$

Write the answers between the lines.

$$\begin{array}{r} 2 \\ 2 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ 3 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ 4 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 12\text{¢} \\ 6\text{¢} \\ + 10\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 12\text{¢} \\ 7\text{¢} \\ + 10\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 8\text{¢} \\ 1\text{¢} \\ + 6\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 3\text{¢} \\ 9\text{¢} \\ + 6\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 20\text{¢} \\ 7\text{¢} \\ + 10\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 15\text{¢} \\ 10\text{¢} \\ + 2\text{¢} \\ \hline \end{array}$$

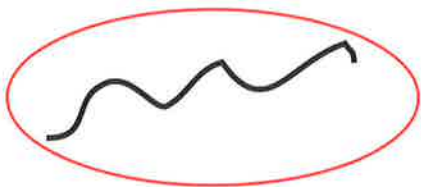
$$\begin{array}{r} 8\text{¢} \\ 10\text{¢} \\ + 4\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 10\text{¢} \\ 8\text{¢} \\ + 10\text{¢} \\ \hline \end{array}$$

Estimating length



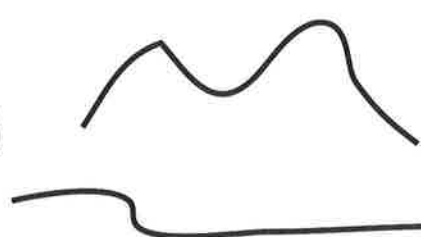
Circle the longest string.



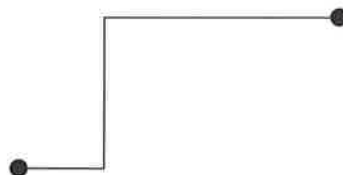
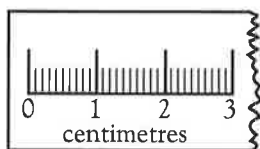
Circle the shortest string.



Circle the longest string.



Look at the ruler. Circle the closest measure.



1 centimetres 2 centimetres 4 centimetres 8 centimetres



2 centimetres 4 centimetres 11 centimetres 30 centimetres



5 centimetres 10 centimetres 15 centimetres 20 centimetres



Subtracting

Write the answers between the lines.

$$\begin{array}{r} 28 \\ - 16 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 2 \text{ II} \\ 31 \\ - 14 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 3 \text{ IO} \\ 40 \\ - 17 \\ \hline 23 \end{array}$$

Write the answers between the lines.

$$\begin{array}{r} 7 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ - 0 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \\ - 8 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 28\text{¢} \\ - 16\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 46\text{¢} \\ - 35\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 39\text{¢} \\ - 26\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 48\text{¢} \\ - 37\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 56\text{¢} \\ - 35\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 39\text{¢} \\ - 28\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 50\text{¢} \\ - 47\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 48\text{¢} \\ - 38\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 40\text{¢} \\ - 8\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 50\text{¢} \\ - 26\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 41\text{¢} \\ - 14\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 44\text{¢} \\ - 36\text{¢} \\ \hline \end{array}$$

Simple tally charts and bar graphs



Look at the tally chart and then answer the question.

blue	
red	

How many votes did blue receive?

18

Look at the tally chart and then answer the questions.

Favourite ice cream flavours

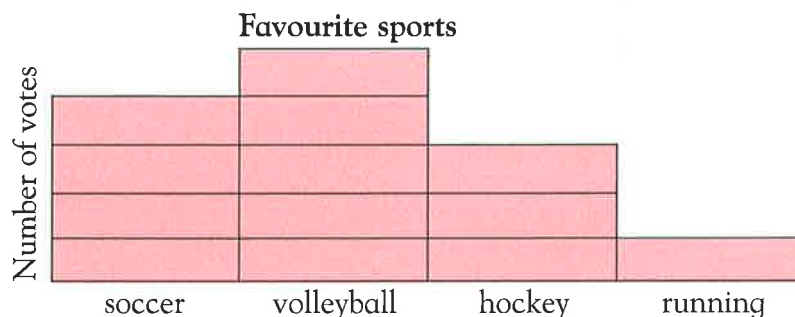
vanilla	
chocolate	
strawberry	

Which flavour had the most votes?

Which flavour had 11 votes?

What was the difference in votes between the most popular flavour and strawberry?

Look at the bar graph and then answer the questions.



Which sport did four children vote for?

How many votes did volleyball receive?

Which was the least popular sport?

How many children voted altogether?

How many more voted for soccer than for hockey?



Addition properties

Circle the number that makes the sentence true.

$$\underline{\quad} + 7 = 7$$

1 0 14

$$43 + 21 = 21 + \underline{\quad}$$

22 64 43

Circle the number that makes the sentence true.

$$\underline{\quad} + 3 = 3$$

0 3 6

$$15 + \underline{\quad} = 15$$

30 0 5

$$\underline{\quad} + 23 = 23 + 16$$

16 23 46

$$25 + 41 = 41 + \underline{\quad}$$

16 66 25

$$\underline{\quad} + 45 = 45$$

45 0 1

$$50 + 0 = 0 + \underline{\quad}$$

50 0 500

Complete the number sentences.

$$\square + 27 = 27$$

$$40 + 0 = \square$$

$$13 + 28 = 28 + \square$$

$$25 + 3 = \square + 25$$

$$\square + 0 = 47$$

$$16 + 43 = 43 + \square$$

$$2 + 28 = \square + 2$$

$$\square + 12 = 12$$

$$\square + 20 = 20 + 28$$

$$35 + \square = 35$$

$$\square + 0 = 10$$

$$20 + 8 = 8 + \square$$

$$\square + 0 = 47$$

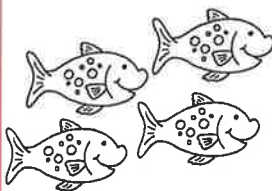
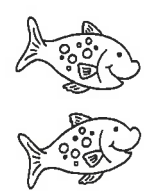
$$8 + 0 = \square$$

$$34 + 11 = \square + 34$$


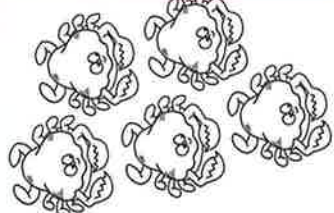
Equations



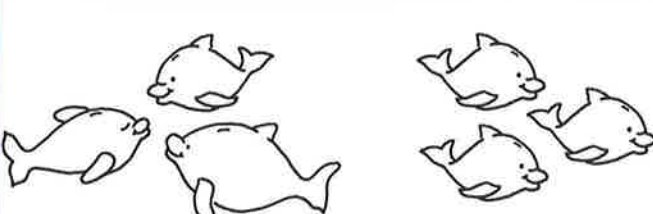

Circle the correct number sentence.

 $7 + 3 = 10$ <u>$4 + 3 = 7$</u> $4 - 3 = 1$	 $2 + 4 = 6$ $2 + 3 = 5$ <u>$5 - 3 = 2$</u>
--	--

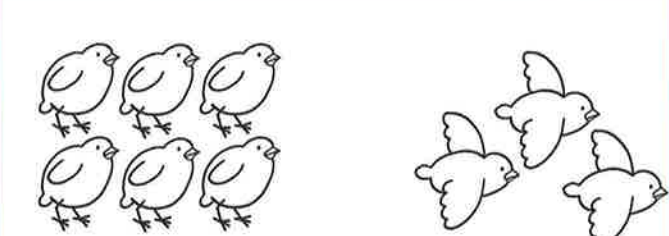
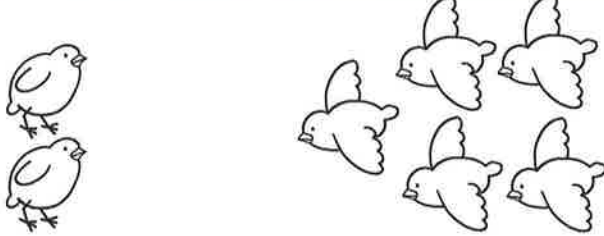

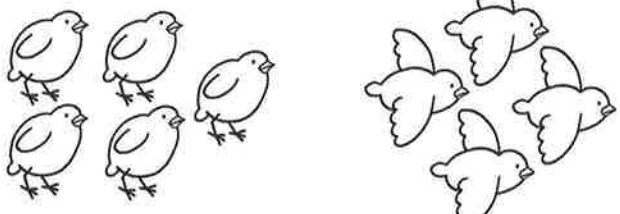
Circle the correct addition sentence.

 $5 + 2 = 7$ $3 + 2 = 5$ $3 - 2 = 1$	 $4 + 2 = 6$ $5 - 1 = 4$ $5 + 1 = 6$
---	---

Circle the correct subtraction sentence.

 $3 + 3 = 6$ $3 - 3 = 0$ $6 - 3 = 3$	 $6 - 2 = 4$ $6 + 2 = 8$ $4 - 2 = 2$
---	---

Circle the correct number sentence.

 $9 - 3 = 6$ $5 - 3 = 2$ $6 - 3 = 3$	 $5 - 2 = 3$ $2 + 5 = 7$ $7 - 5 = 2$
 $6 - 4 = 2$ $4 + 2 = 6$ $6 + 2 = 8$	 $5 - 1 = 4$ $4 + 5 = 9$ $9 - 4 = 5$



Picture graphs

Look at this picture graph. Then answer the questions.

Mina's marbles

Clear	●	●	●	●	●
Blue	●	●	●		
Green	●	●	●	●	
Red	●	●	●		
Yellow	●				

How many blue marbles does Mina have?

Does Mina have more green marbles or yellow marbles?

How many marbles does Mina have in all?

Look at this picture graph. Then answer the questions.

Books on Pablo's shelf

Cats						
Sports						
Mysteries						
Cartoons						
Science						

How many science books does Pablo have?

Does he have more books about cats than mysteries?

How many more cartoon books does he have than mysteries?

How many books about cats and science does he have?

Look at this picture graph. Then answer the questions.

Pets on Redmond Road

Cats							
Dogs							
Fish							
Birds							

On Redmond Road, are there more cats or dogs?

How many more fish are there than dogs?

How many cats and dogs are there?

How many pets are there in all?

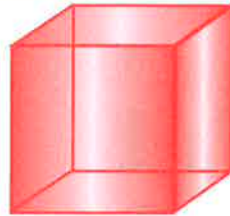
3-dimensional shapes



Write the name of each shape.



sphere



cube

Write the name of each shape. Use the words in the Word Box.

Word Box

sphere

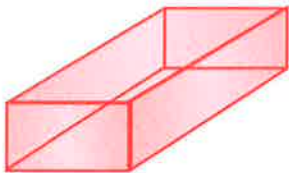
prism

cone

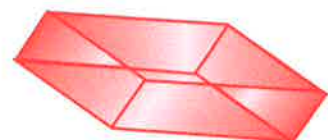
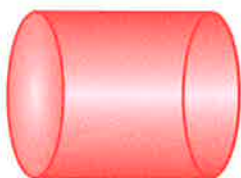
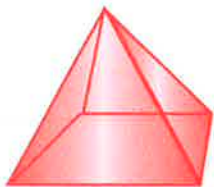
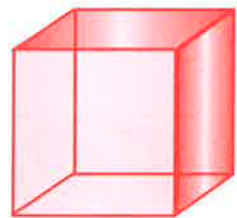
cube

cylinder

pyramid



prism



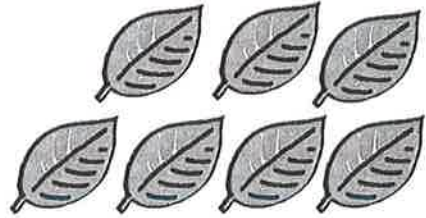


Missing addends

Write the missing addend.



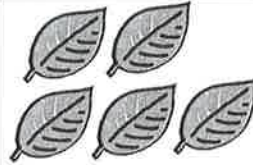
$$6 + 7 = 13$$



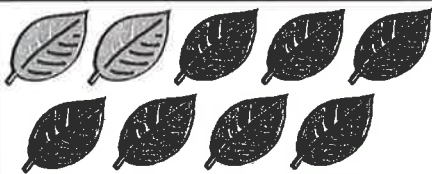
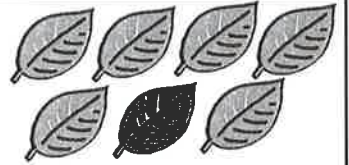
Write the missing addend.



$$3 + \square = 9$$



$$5 + \square = 12$$



$$9 + \square = 11$$



$$8 + \square = 16$$



Write the missing addend.

$$3 + \square = 7$$

$$5 + \square = 14$$

$$9 + \square = 12$$

$$8 + \square = 10$$

$$7 + \square = 12$$

$$7 + \square = 15$$

$$7 + \square = 12$$

$$9 + \square = 17$$

$$7 + \square = 13$$

$$8 + \square = 14$$

$$10 + \square = 13$$

$$4 + \square = 13$$

$$4 + \square = 7$$

$$3 + \square = 9$$

$$2 + \square = 11$$

$$8 + \square = 13$$

$$6 + \square = 8$$

$$5 + \square = 9$$

$$7 + \square = 8$$

$$8 + \square = 12$$

$$8 + \square = 9$$

$$6 + \square = 13$$

$$8 + \square = 16$$

$$5 + \square = 11$$

$$4 + \square = 11$$

$$10 + \square = 15$$

$$8 + \square = 11$$

$$4 + \square = 10$$

$$7 + \square = 14$$

$$8 + \square = 15$$

$$9 + \square = 14$$

$$6 + \square = 15$$

$$9 + \square = 16$$

$$9 + \square = 18$$

$$3 + \square = 10$$

$$5 + \square = 9$$

Reading tables



Read the table. Then answer the questions.

Ages of cousins

NAME	AGE
Kinta	8
Paul	7
Clara	9
Meg	7
Lee	6

How old is Paul?

Who is older than Kinta?

Who is the same age as Meg?

Who is the youngest?

Read the table. Then answer the questions.

Favourite juice

Apple	6
Cranberry	2
Grape	3
Cherry	1
Orange	9

How many people
chose orange juice?

Which juice
did 2 people choose?

How many more people
like orange juice than apple juice?

Did more people choose
grape juice or cranberry juice?

Read the table. Then answer the questions.

Mass of dogs

NAME	Bear	Mike	Perry	Spike	Marca
KILOGRAMS	30	6	9	5	3

Which dog has a mass of more than 25 kilograms?

Which dog has a mass of less than 4 kilograms?

How much more mass does Perry have than Mike?

How much less mass does Spike have than Mike?



Adding

Write the answer in the box.

$$\begin{array}{r} 34 \\ + 13 \\ \hline 47 \end{array}$$

$$\begin{array}{r} 26 \\ + 15 \\ \hline 41 \end{array}$$

$$\begin{array}{r} 73 \\ + 27 \\ \hline 100 \end{array}$$

Write the answer in the box.

$$\begin{array}{r} 5 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 0 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 42 \\ + 7 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \\ + 6 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 1 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ + 3 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ + 2 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 13 \\ \hline \end{array}$$

$$\begin{array}{r} 33 \\ + 15 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ + 11 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ + 12 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ + 23 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ + 24 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ + 17 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ + 26 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ + 18 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ + 16 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ + 14 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ + 26 \\ \hline \end{array}$$

Reading a calendar



Look at this calendar. Then answer the questions.

September

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

What day of the week is the first day of September on this calendar?

What date is the last Tuesday in September?

Look at this calendar. Then answer the questions.

July

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

How many days are in the month of July?

What day of the week is the last day of July on this calendar?

A camp starts on July 5 and ends on July 9. How many camp days are there?

The campers go swimming on Tuesday and Thursday. On which dates will they swim?

Look at this calendar. Then answer the questions.

November

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

What date is the first Sunday of November?

What day of the week is November 14?

How many Saturdays are shown in November?

Jenna's birthday is November 23. What day of the week is it?



Subtracting

Write the answer in the box.

$$\begin{array}{r} 6\ 13 \\ 73 \\ - 48 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 3\ 15 \\ 45 \\ - 26 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 6\ 12 \\ 72 \\ - 36 \\ \hline 36 \end{array}$$

Write the answer in the box.

$$\begin{array}{r} 27 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ - 2 \\ \hline \end{array}$$

$$\begin{array}{r} 38 \\ - 5 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 28 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ - 4 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline \end{array}$$

$$\begin{array}{r} 26 \\ - 6 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ - 3 \\ \hline \end{array}$$

$$\begin{array}{r} 37 \\ - 17 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \\ - 17 \\ \hline \end{array}$$

Write the answer in the box.

$$\begin{array}{r} 48\text{ cm} \\ - 18\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 49\text{ cm} \\ - 36\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 47\text{ cm} \\ - 27\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 45\text{ cm} \\ - 44\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 49\text{ cm} \\ - 47\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 38\text{ cm} \\ - 26\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 39\text{ cm} \\ - 4\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 47\text{ cm} \\ - 47\text{ cm} \\ \hline \end{array}$$

Write the answer in the box.

$$\begin{array}{r} 43\text{¢} \\ - 17\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 41\text{¢} \\ - 24\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 43\text{¢} \\ - 36\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 51\text{¢} \\ - 46\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 50\text{¢} \\ - 44\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 51\text{¢} \\ - 37\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 53\text{¢} \\ - 46\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 54\text{¢} \\ - 44\text{¢} \\ \hline \end{array}$$

$$\begin{array}{r} 50\text{ cm} \\ - 34\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 50\text{ cm} \\ - 47\text{ cm} \\ \hline \end{array}$$

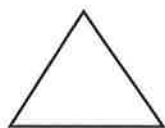
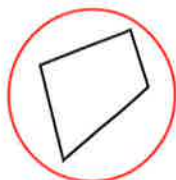
$$\begin{array}{r} 36\text{ cm} \\ - 18\text{ cm} \\ \hline \end{array}$$

$$\begin{array}{r} 47\text{ cm} \\ - 35\text{ cm} \\ \hline \end{array}$$

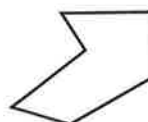
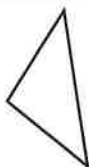
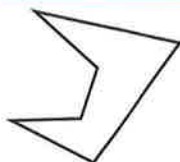
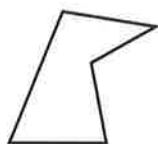
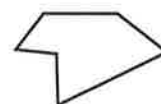
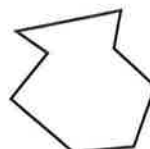
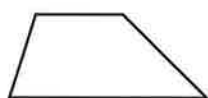
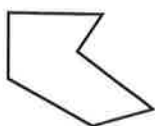
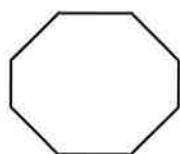
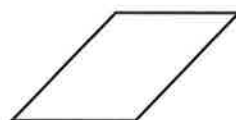
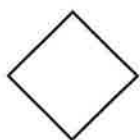
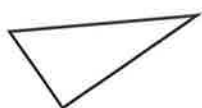
Properties of polygons



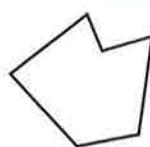
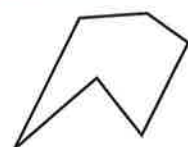
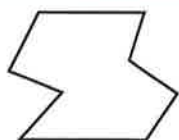
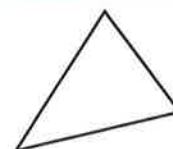
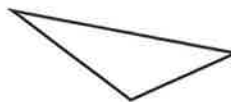
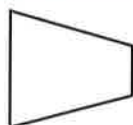
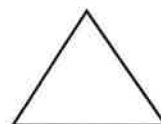
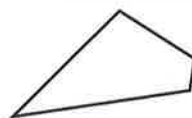
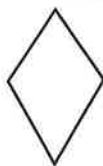
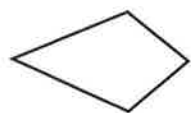
Circle the polygon that has the same number of sides.



Circle the polygon that has the same number of sides.



Circle the polygon that has a different number of sides.





Venn diagrams

Read the clues to find the secret number.

1, 2, 3, 4, 5

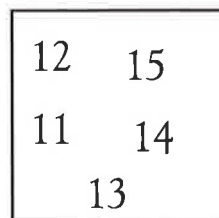
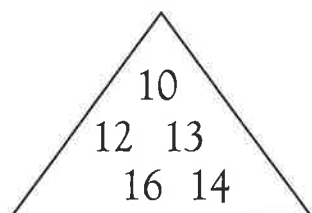
3, 5, 7

It is in both the rectangle and the circle.

It is greater than 3.

What number is it?

Read the clues to find the secret number.

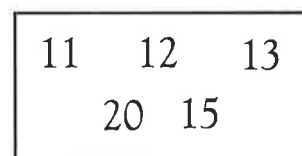
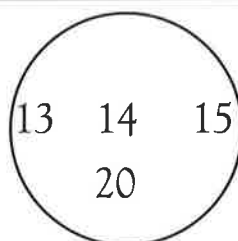
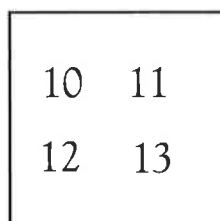


It is not in the square.

It is an even number.

It is less than 12.

What number is it?

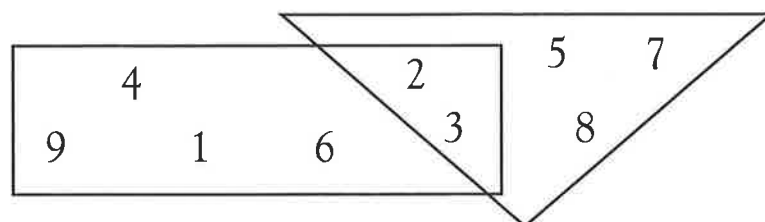


It is in the rectangle and the circle.

It is greater than 13 and less than 20.

It is an odd number.

What number is it?



It is not an even number.

It is in the triangle.

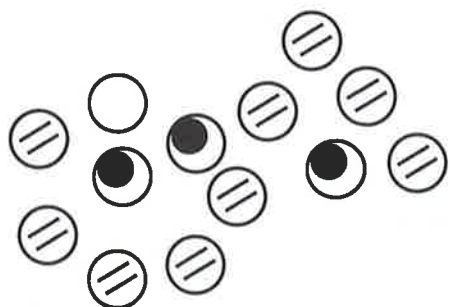
It is in the rectangle.

What number is it?

Most likely/least likely



Look at the marbles. Then answer the questions.



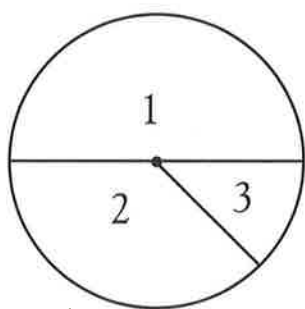
Which kind of marble would you be least likely to pick without looking?



Which kind of marble would you be most likely to pick without looking?



Look at the spinner. Then answer the questions.



Is the spinner more likely to land on 1 or 2?

Is the spinner more likely to land on 2 or 3?

Which number is the spinner most likely to land on?

Which number is the spinner least likely to land on?

Look at the tally chart. Then answer the questions.

Imagine that each time you shake the bag, one coin falls out.

Tally of coins in the bag

COINS	TALLIES
Pennies	
Dimes	
Nickels	
Quarters	

Is a penny or a dime more likely to fall out?

Is a quarter or a nickel more likely to fall out?

Which coin is most likely to fall out?

Which coin is least likely to fall out?

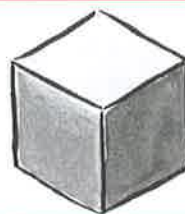


3-dimensional shapes

Write the name of each shape.



Sphere

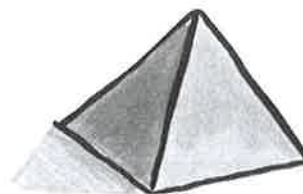
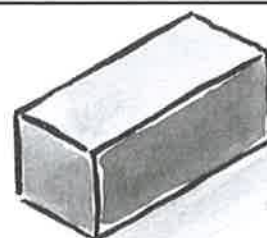
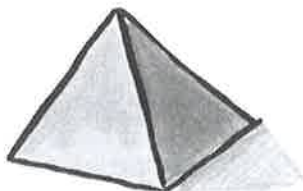
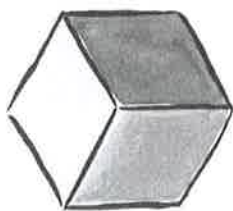
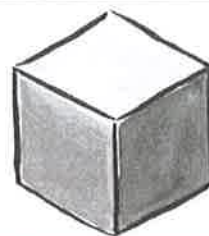


Cube

Write the name of each shape. Use the names in the Word Box.

Word Box

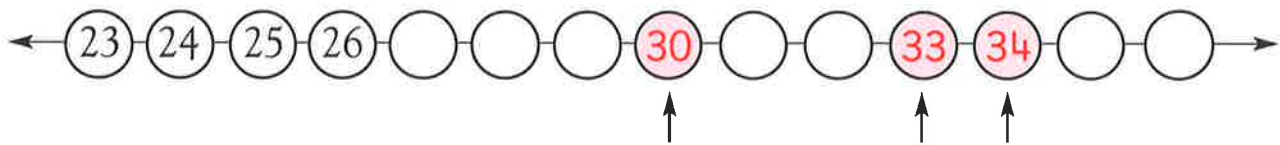
Sphere
Cube
Cylinder
Prism
Pyramid
Cone



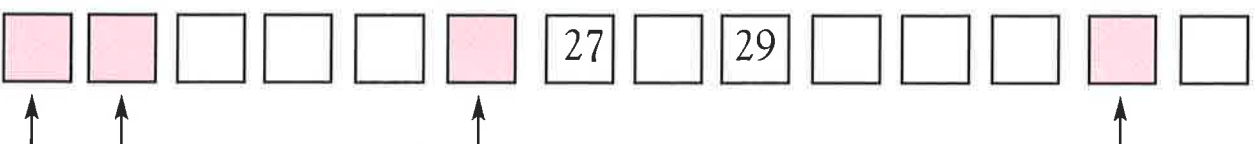
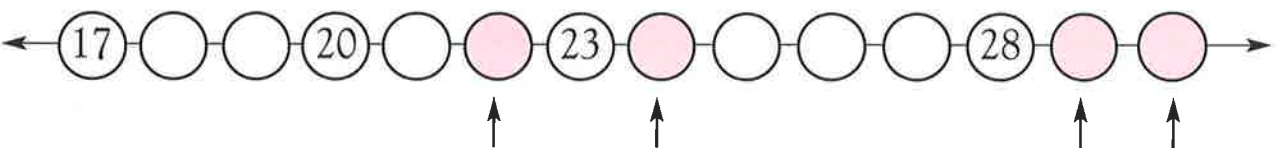
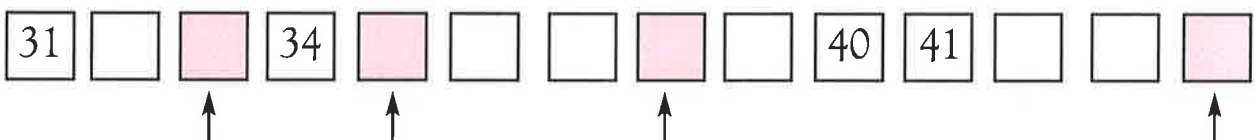
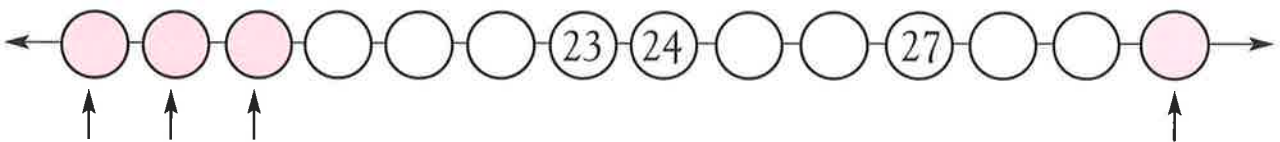
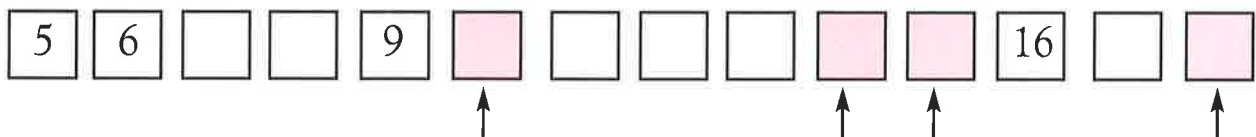
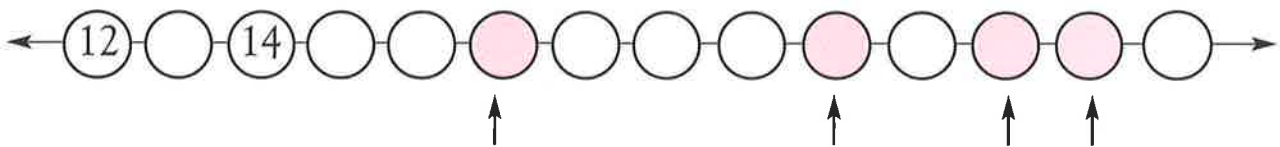
Counting



Write the missing number above each ↑.



Write the missing number above each ↑.



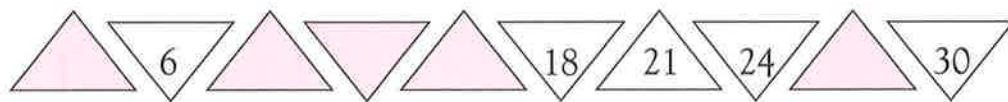
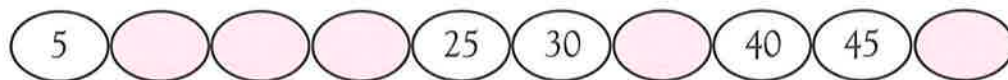


Finding patterns

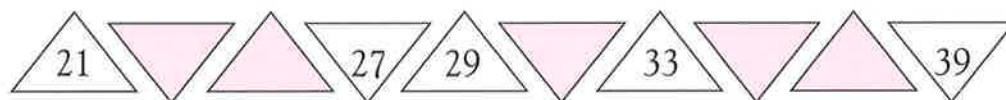
Find the counting pattern. Write the missing numbers.

12	14	16	18	20	22	24	26	28	30
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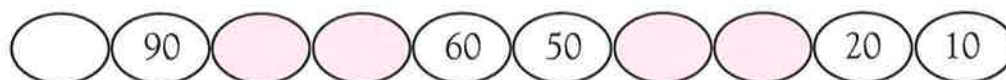
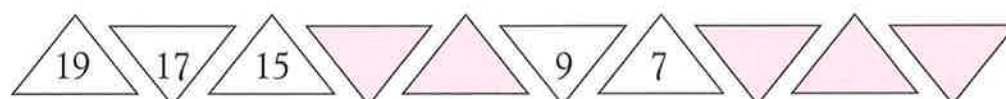
Find the counting pattern. Write the missing numbers.



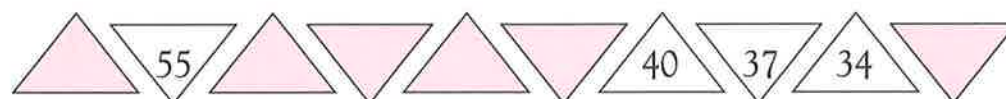
11	15		23				39		47
----	----	--	----	--	--	--	----	--	----



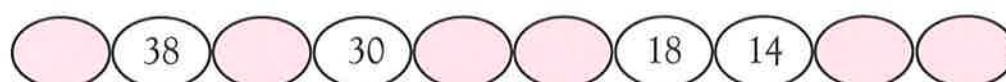
6	12	18					48	54	
---	----	----	--	--	--	--	----	----	--



10	20	30		50			80		
----	----	----	--	----	--	--	----	--	--



50			35		25		15		5
----	--	--	----	--	----	--	----	--	---



Reading tally charts



Look at the tally chart. Then answer the questions.

Winners at Tag

Kelly	Mark	Sandy	Rita	Brad

Who won the most games?

Who won more games, Sandy or Kelly?

How many more games did Rita win than Mark?

Look at the tally chart. Then answer the questions.

Colours of T-Shirts sold

Blue	
White	
Green	
Black	

Which colour shirt was sold most?

How many green shirts were sold?

Which colour sold more, blue or green?

How many black shirts were sold?

How many more green shirts were sold than white shirts?

How many more black shirts were sold than green shirts?

How many T-shirts were sold in all?

Look at the tally chart. Then answer the questions.

Snack choices

Chips	Cherries	Cheese	Cookie	Apple

How many people chose chips?

Which snack did 7 people choose?

Did more people choose chips or cookies?

Which snack did the fewest people choose?

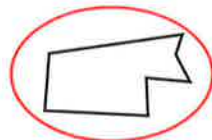
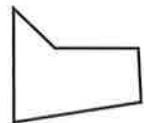
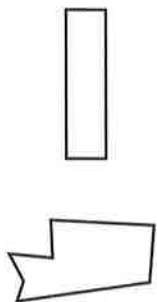
How many more people chose cheese than chips?

How many people chose apples and cherries?

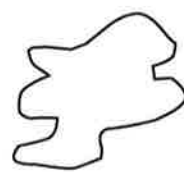
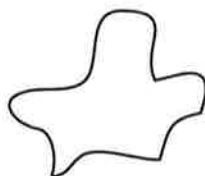
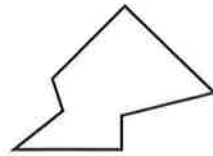
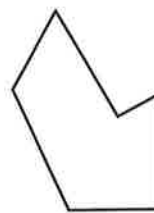
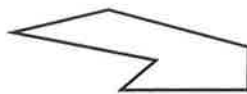
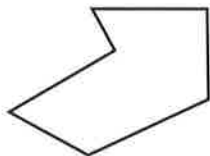
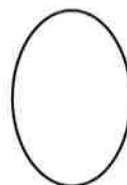
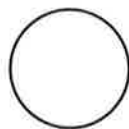
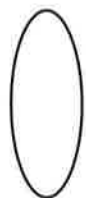
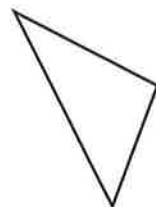
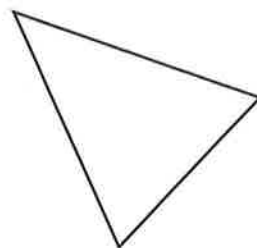
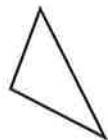
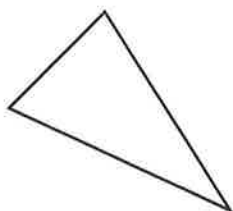
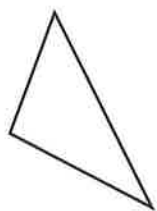


Same shape and size

Which figure has same shape and size?



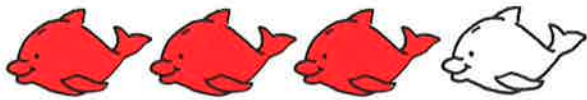
Circle the figure that has same shape and size.




Parts of a set



Write the fraction that shows the red part of the set.
How many of the fish are red?

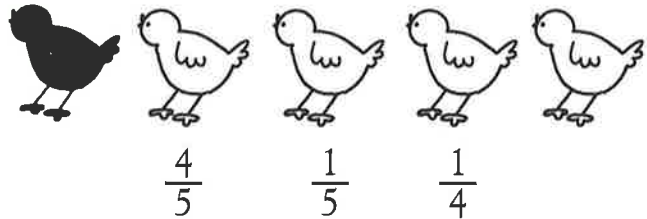
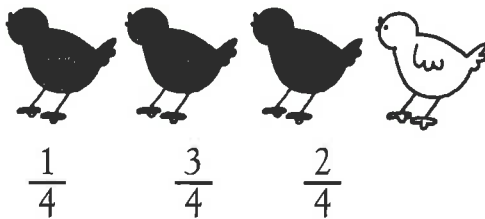
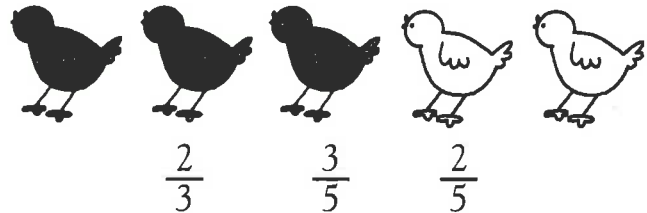
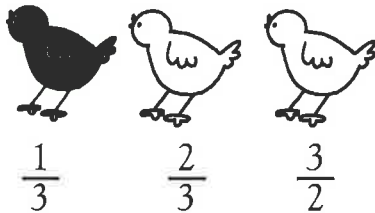


How many  ? 3
How many fish in all? 4

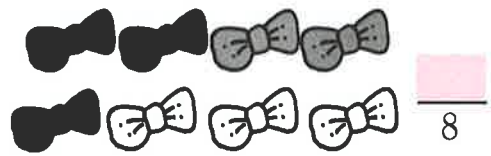
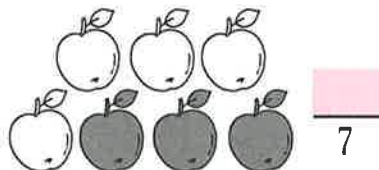
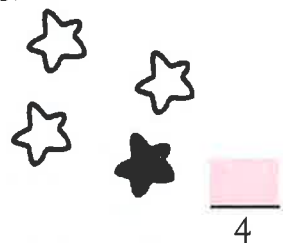
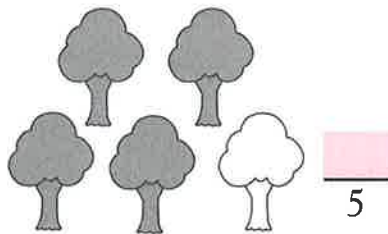
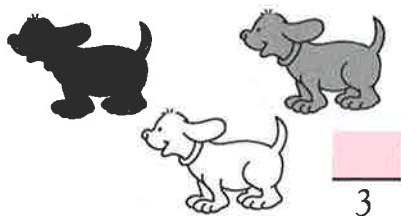
Write the fraction.

$\frac{3}{4}$ part of the set
whole set

Circle the fraction that shows the shaded part of the set.



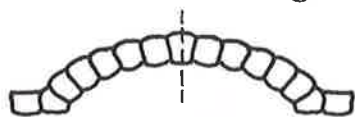
Write the fraction that shows the shaded part of the set.





Symmetry

Hold a mirror along the dotted line. Does it show a line of symmetry?



yes

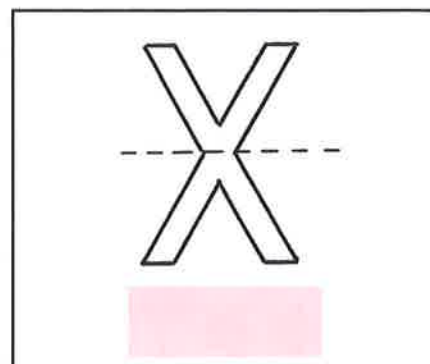
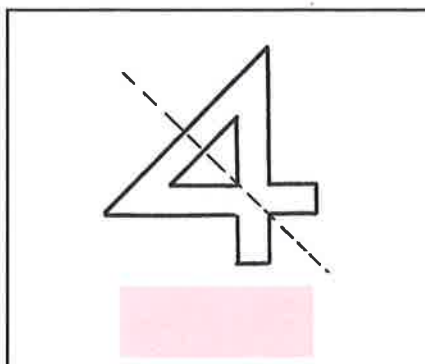
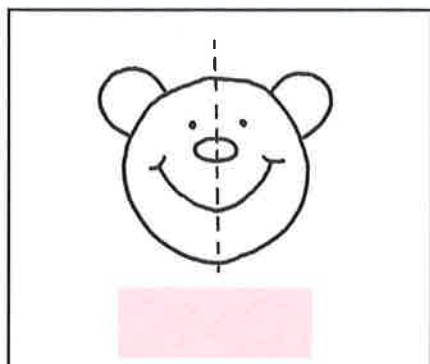
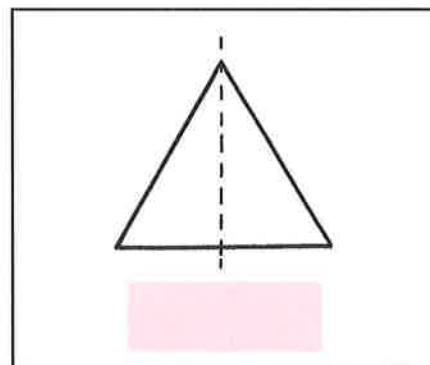
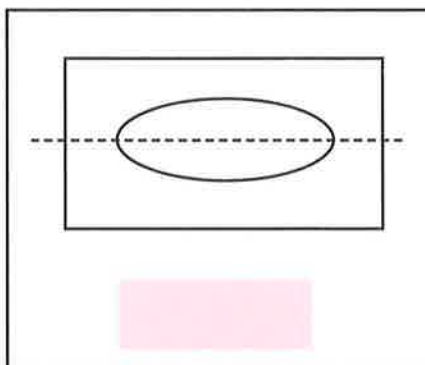
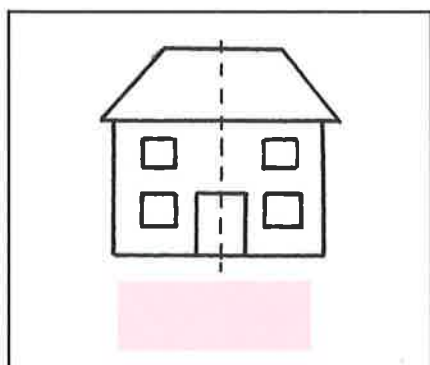
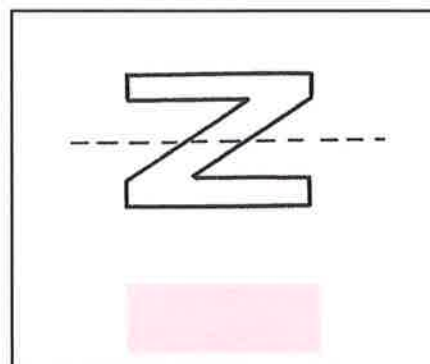
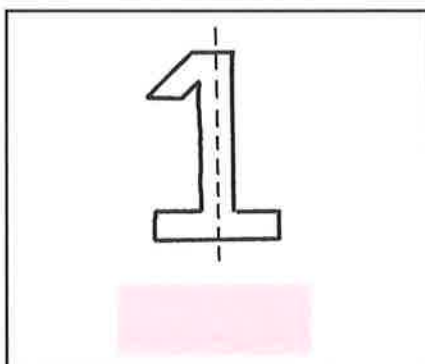
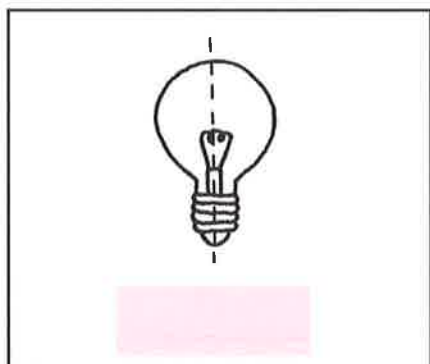
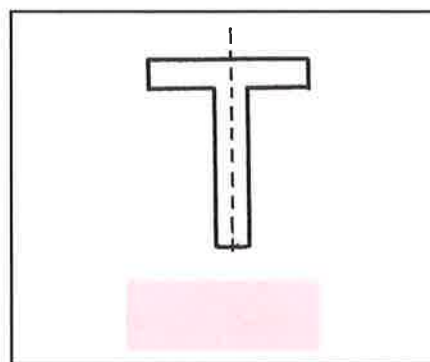
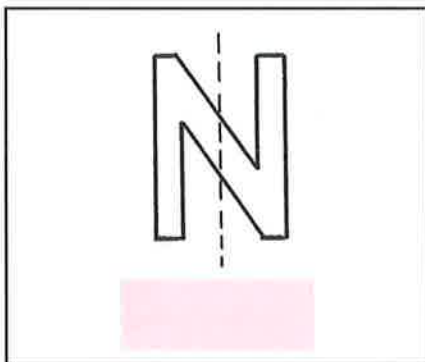
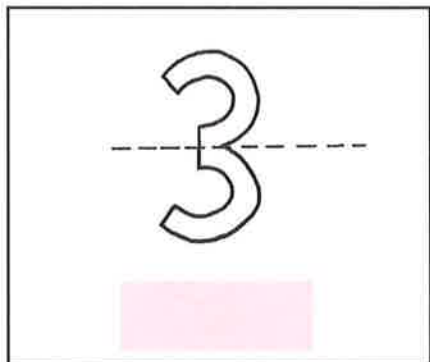


no



yes

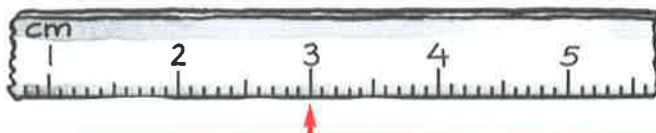
Does the dotted line show a line of symmetry? Write yes or no.



Measurement problems

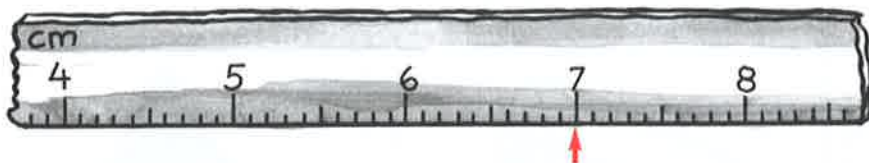


Write the measurement shown by the arrow.



3 cm

Write the measurement shown by the arrow.





3-dimensional shapes

Write the name of each shape in the box.

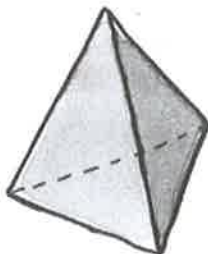
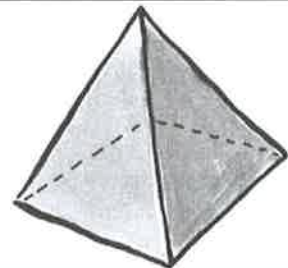
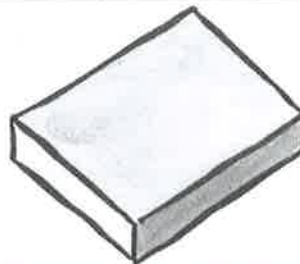
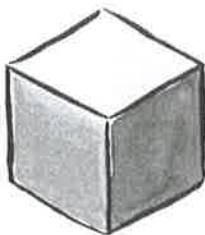


prism



sphere

Write the name of each shape in the box.



Answer Section with Parents' Notes

Grade 1
ages 6–7
Workbook

This section provides answers to all the activities in the book. These pages will enable you to mark your children's work, or they can be used by your children if they prefer to do their own marking.

The notes for each page help to explain common errors and problems and, where appropriate, indicate the kind of practice needed to ensure that your children understand where and how they have made errors.

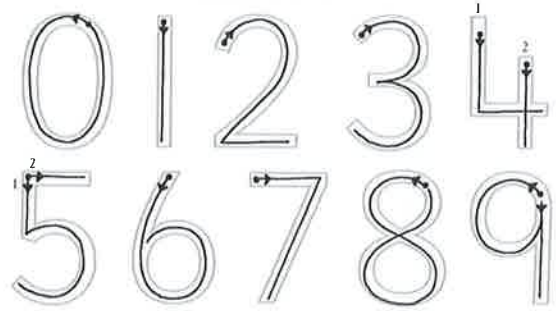


2



Numbers

Trace the numbers.



Write the numbers.



Throughout Grade 1, children will need regular writing practice to reinforce the correct movement of the pencil. Watch out for numerals written backward and for any numeral written from the bottom up. All numerals should begin at the top.

3

Numbers and pictures

Count the animals, draw the dots, and write the number.

	2		two
	3		three
	5		five
	6		six

Draw your own examples.

	1		one
	4		four

At this stage, it is more important for children to be able to read the word for each number than to be able to spell it without help. Children can refer to the number line of the Progress Chart. Children can learn correct spellings gradually.

4



Counting

Connect each set to the correct number.

	8
	9
	6
	15
	10
	12

Draw your own set to match the number.

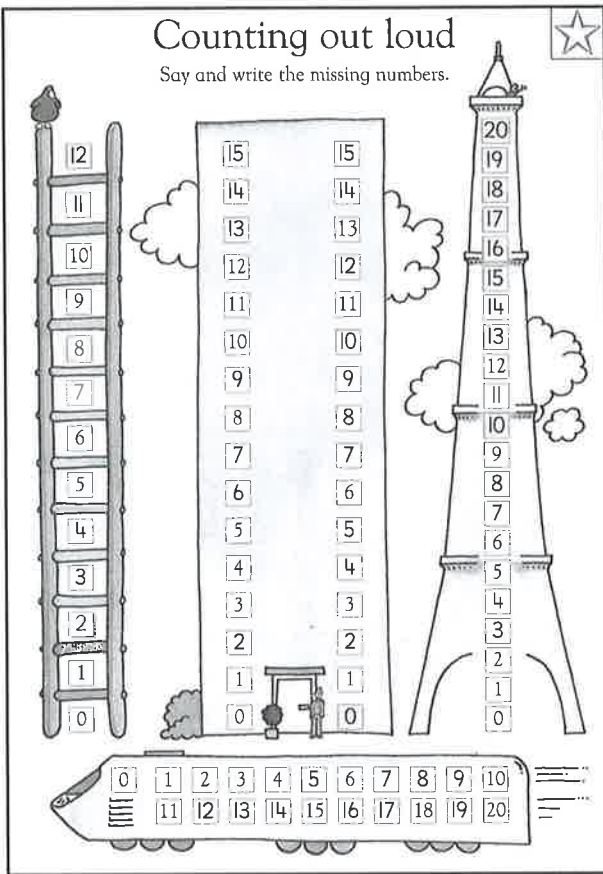
	Count the beads.		

Counting and then re-counting to check an answer before writing anything down is a useful habit to develop. Some children will be able to count without pointing to the objects, but when re-counting, children may need to point to each item.

5

Counting out loud

Say and write the missing numbers.

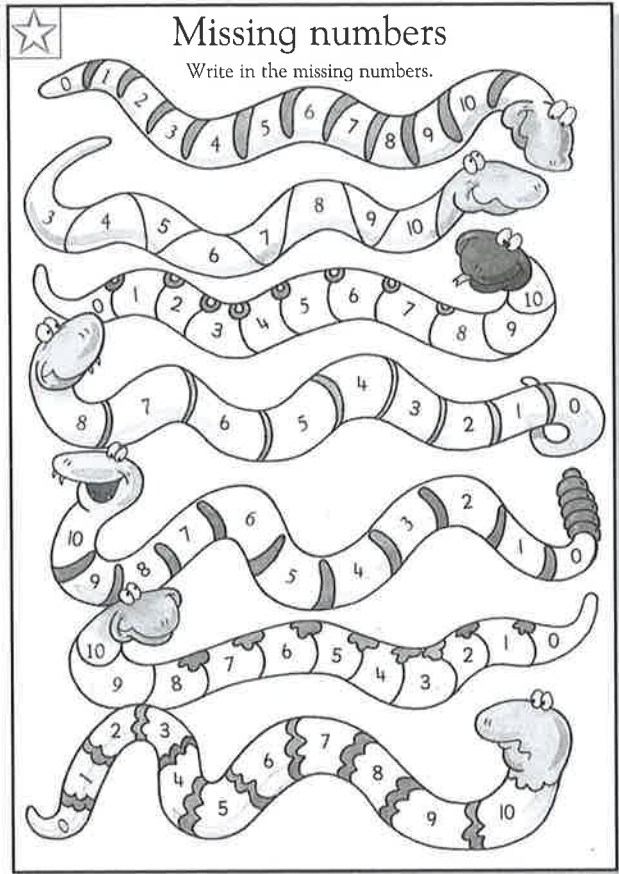


It is important that children say the numbers out loud while completing each picture to reinforce the pattern of sounds that the numbers make. This will help them acquire a sense of whether the sequence sounds right. Make sure that zero is included here.

6

Missing numbers

Write in the missing numbers.

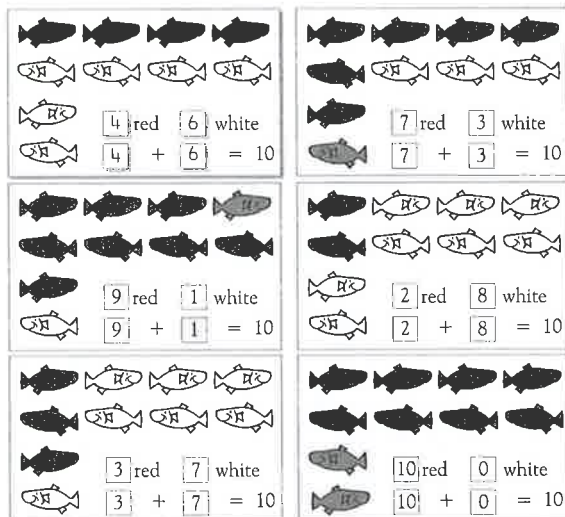


For snakes 4, 5, and 6, make sure that children write 0 (zero) as the number nearest the tail and not 1. It is essential to encourage the use of the term *zero* and not *O* (as in *only*) or *nothing*. Have children look at the number line if they have problems.

7

Making 10

Colour some fish red, and write the correct numbers in the boxes.



Write the missing numbers in the boxes to make 10.

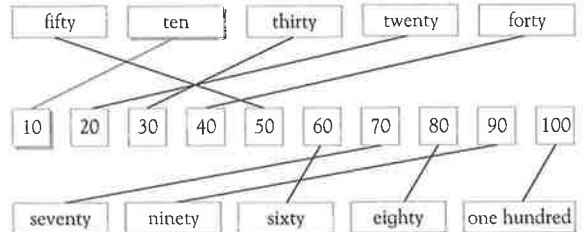
$10 + \boxed{0} = 10$	$6 + \boxed{4} = 10$	$2 + \boxed{8} = 10$
$9 + \boxed{1} = 10$	$5 + \boxed{5} = 10$	$1 + \boxed{9} = 10$
$8 + \boxed{2} = 10$	$4 + \boxed{6} = 10$	$0 + \boxed{10} = 10$
$7 + \boxed{3} = 10$	$3 + \boxed{7} = 10$	

The number of items shaded and the number of items unshaded must match the numbers written in the answer boxes. For the bottom activity, find out whether children have noticed the pattern as it develops.

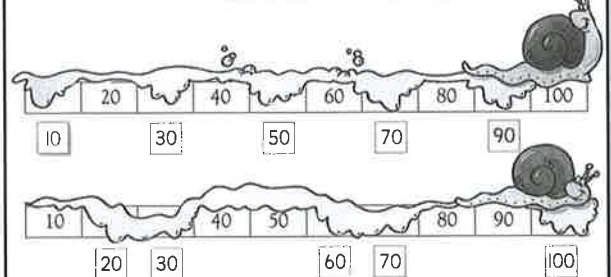
8

Count by 10s

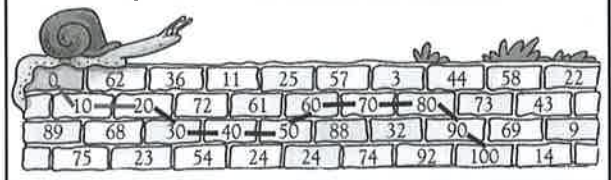
Match the numbers to the words.



Which numbers has the snail hidden?



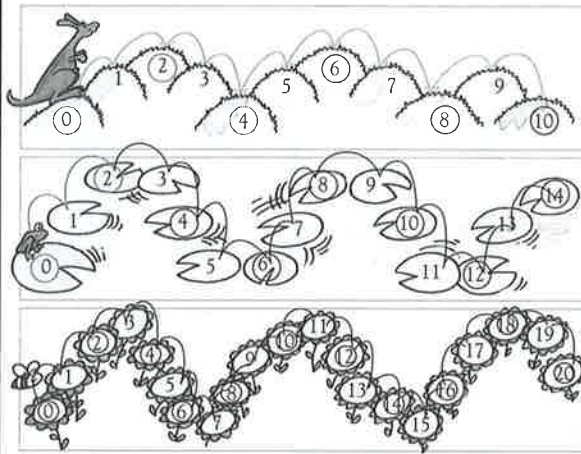
Help the snail follow the bricks in the right order.



Help children recite the sequence and then say it in reverse, from 100 back down to 10.

Count by 2s

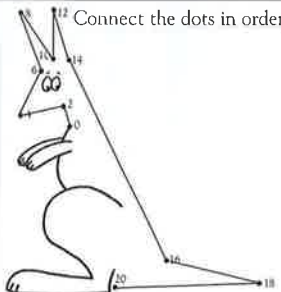
Fill in the "hops" and circle the even numbers.



Colour the even numbers.

1	2	3	4	5
6	7	8	9	10
11	12	13	14	15
16	17	18	19	20
21	22	23	24	25
26	27	28	29	30

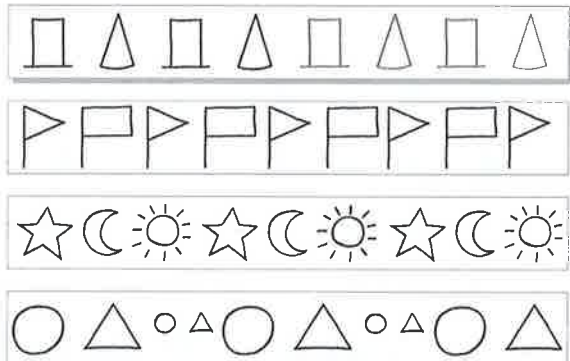
Connect the dots in order.



Encourage children to read out loud the sequence of numbers they have found, e.g. 2, 4, 6, 8. For the grid activity (bottom left), make sure children notice the pattern. Point out that the shaded squares have even numbers and the others have odd numbers.

Patterns

Continue the pattern.



Make your own patterns.



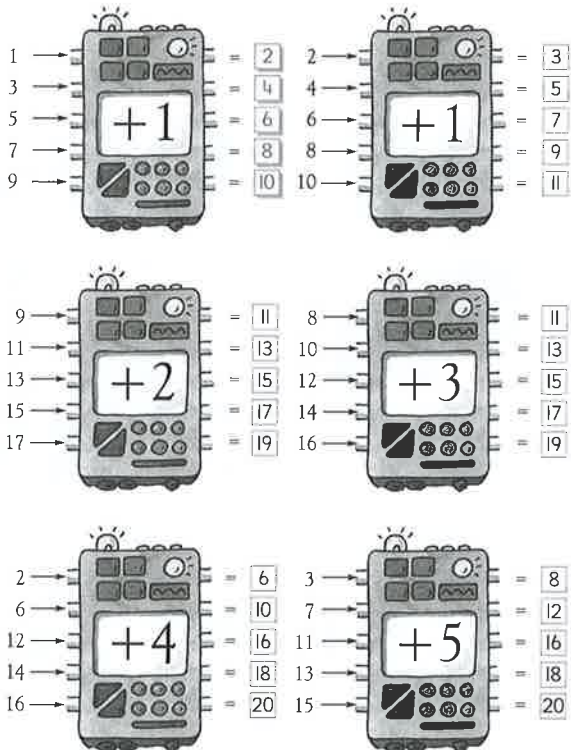
Continue the number patterns.

2	4	6	2	4	6	2	4	6	2	4	6	2
10	9	9	10	9	9	10	9	9	10	9	9	10
1	3	5	7	1	3	5	7	1	3	5	7	1
5	5	5	6	5	5	6	5	5	6	5	5	6

Encourage children to talk about their own patterns and to explain what they have done. Explain that a mathematical pattern must have elements that repeat or progress in a predictable way.

Adding machines

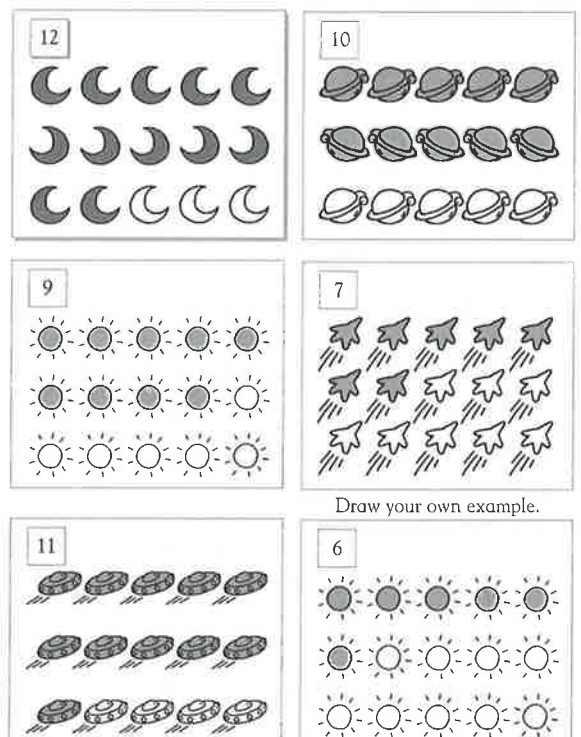
Add the numbers, and write the answers.



If children have difficulty with the exercises on the page, suggest to them that they use their fingers or counters to find the answers.

Reading numbers

Colour enough things to match the number in each box.



When checking the number of pictures children have coloured, encourage them to go back and re-count the pictures aloud. Children might find it helpful to point to each picture as they count it.

Finding 10s

Ring 10 items, and write the numbers.

12 = 10 + 2

16 = 10 + 6

19 = 10 + 9

17 = 10 + 7

11 = 10 + 1

20 = 10 + 10

Make sure that each drawn ring does actually enclose 10 objects. If children ring any number of objects other than 10, they will arrive at an incorrect answer.

Tens and ones

How many tens and ones do you see?

tens	ones	tens	ones	tens	ones
1	4	1	7	2	0
14		17		20	

Draw the tens and ones.

tens	ones	tens	ones	tens	ones
1	9	1	5		3
19		15		3	

Make sure that children understand that the 1 in 14 stands for 1 ten, but the 1 in 41 represents 1 one.

One more or one less?

Write one less and one more than the numbers shown in the boxes.

1 less 1 more

Draw one more or one less, and write the new number.

1 more

5

1 less

7

1 more

7

1 less

1

Children might benefit from making up their own number stories about the candies. For example, Rebecca had 3 candies, but her mother said she could have 1 more. Rebecca has 4 candies now.

Ordering

Colour the prize ribbons.

4th = purple 3rd = yellow 1st = green 6th = red 2nd = blue 5th = orange

Which rabbit is 1st, 2nd, 3rd ...?

Which shape comes 1st, 2nd, 3rd ...?

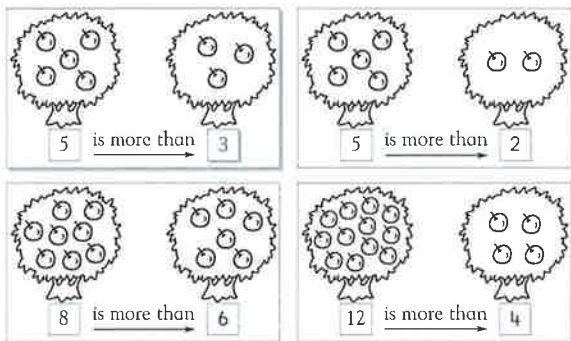
Start here

3rd 8th 2nd 7th 4th 9th 1st 6th 5th 10th

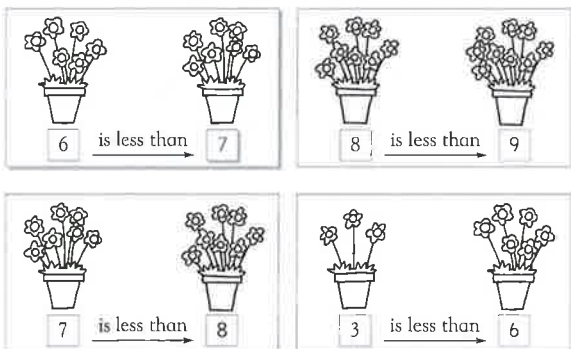
Make sure that children understand the relationship between the numbers and the ordinals, that position 3 is 3rd, position 10 is 10th, and so on.



Fill in the apples and numbers that make each sentence true.



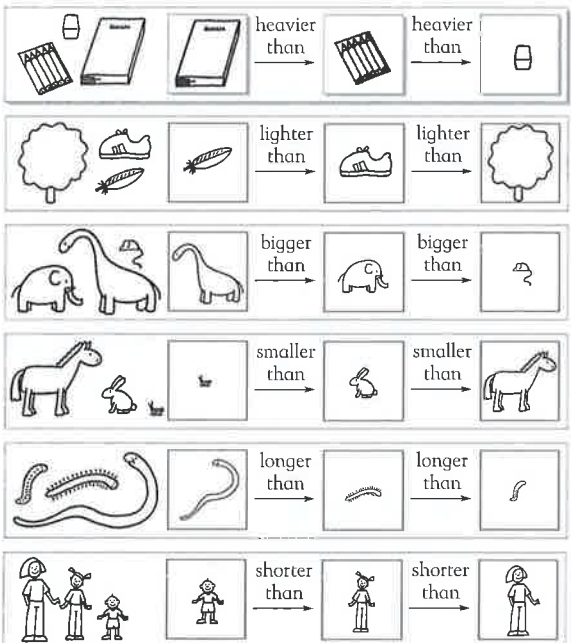
Fill in the flowers and numbers to make each sentence true.



Children's answers will vary. Make sure that the number of objects drawn matches the numeral written in the box and that the number sentence is valid.



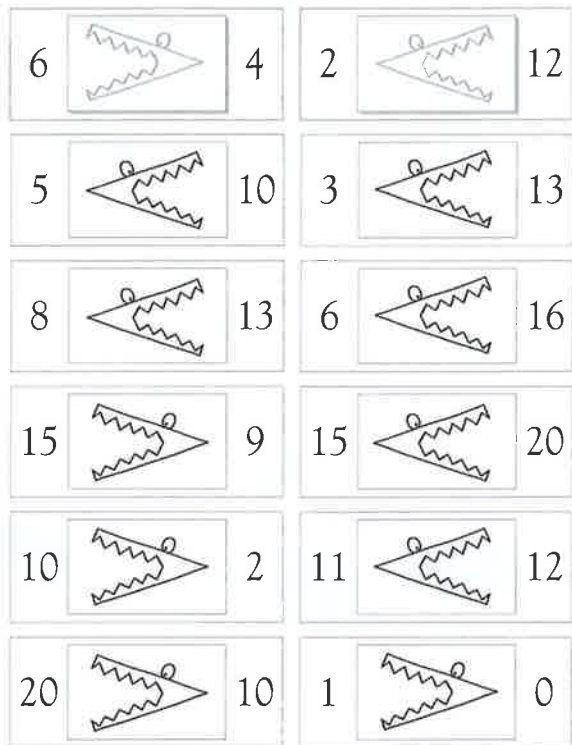
Draw the pictures to make each comparison true.



Make sure that children understand the kind of relationship among the three items that the comparative word describes.



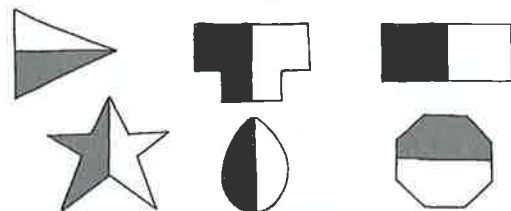
Draw the hungry crocodiles.
They always eat the greater numbers!



Make sure that children understand that the word *greater* means that one number is larger or higher in value than another. Make sure that children understand that even though 1 is a small number, it is greater than 0.



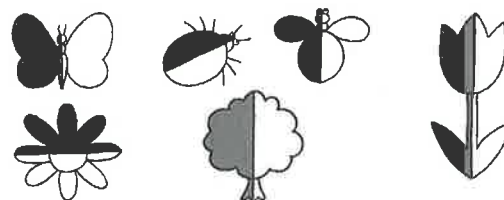
Colour one half ($\frac{1}{2}$) of each shape.



Write a ✓ in the box if $\frac{1}{2}$ the figure is shaded and a ✗ if less than $\frac{1}{2}$ is shaded.



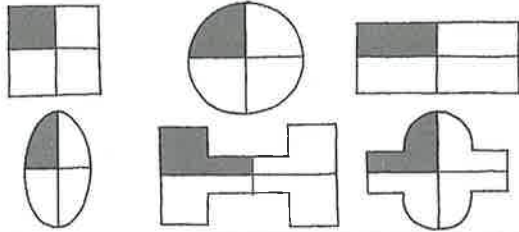
Colour one half ($\frac{1}{2}$) of each figure.



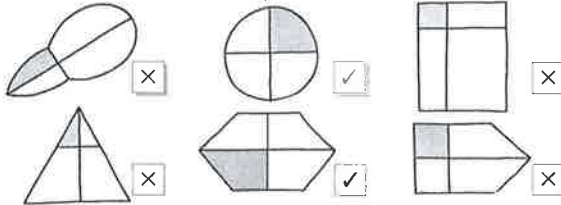
Make sure that children understand that the two halves of something must be exactly the same size.



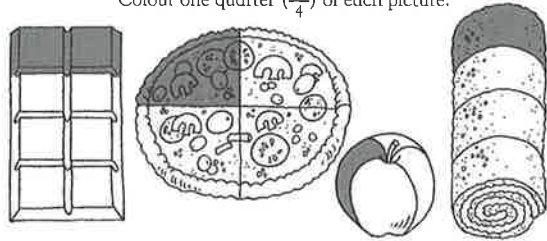
Colour one quarter ($\frac{1}{4}$) of each shape.



Write a \checkmark in the box if $\frac{1}{4}$ of the figure is shaded and a \times if less than $\frac{1}{4}$ is shaded.



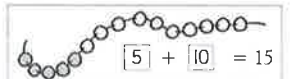
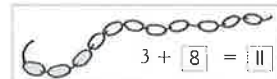
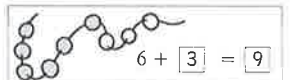
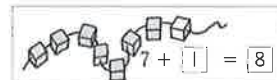
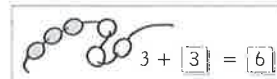
Colour one quarter ($\frac{1}{4}$) of each picture.



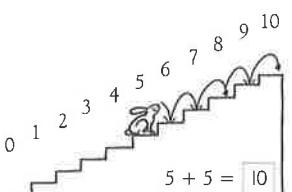
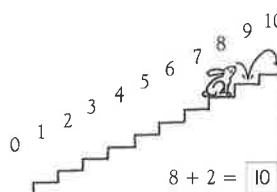
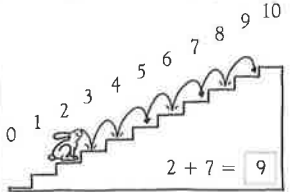
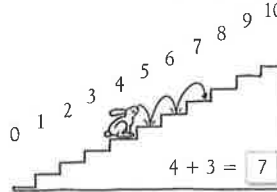
Make sure children understand that the four quarters of something must be exactly the same size.



Fill in the missing numbers, and add.



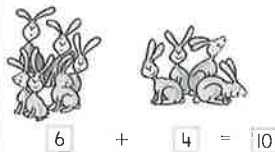
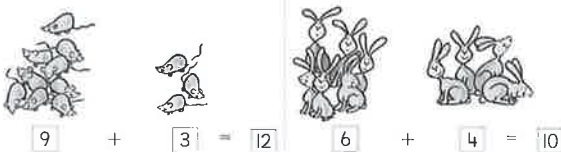
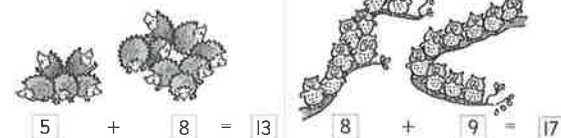
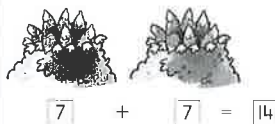
Count on to find out on which step the rabbit stops.



In the activity on top, the two numbers written must match the numbers of beads shaded and unshaded. In the last example, any one of a number of combinations could be correct. For the second activity, encourage your child to count mentally.



Count and add the animals, and then write the new number.



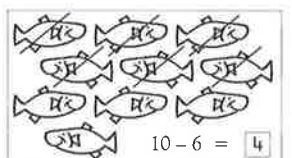
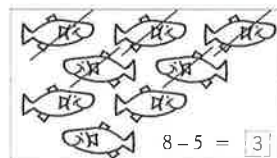
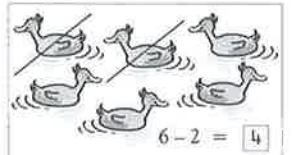
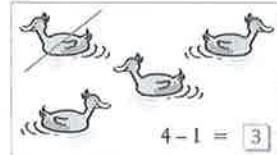
Fill in the missing numbers in the equations.

$7 + 4 = 11$	$3 + 9 = 12$	$6 + 6 = 12$
$9 + 5 = 14$	$2 + 8 = 10$	$3 + 11 = 14$
$9 + 3 = 12$	$6 + 4 = 10$	$13 + 4 = 17$
$2 + 3 = 5$	$16 + 0 = 16$	$15 + 4 = 19$

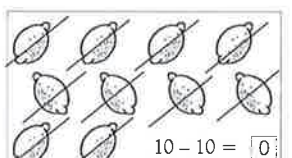
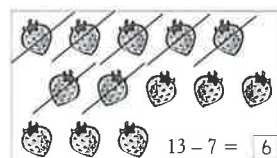
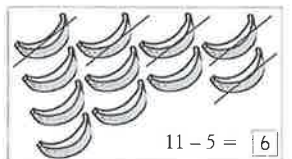
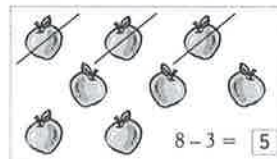
Children can solve these problems by counting on. They might also find it helpful to check their answers by using a number line.



Cross out the correct number of animals, and fill in the answers.



Cross out the correct number of fruits, and fill in the answers.

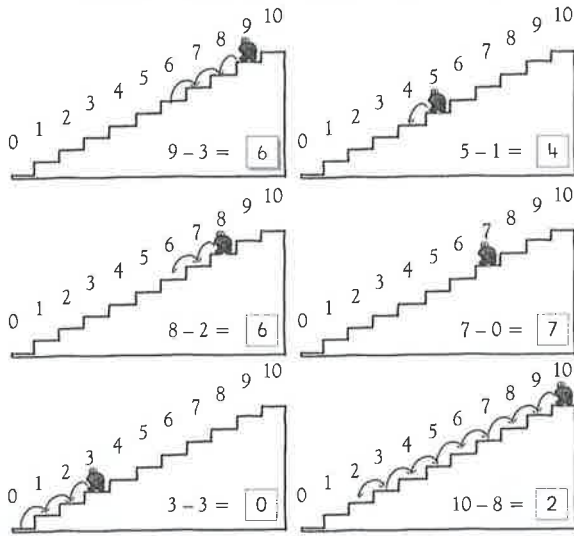


Make sure children understand the terms *cross out* and *left*. Guide children to see that crossing out a picture is a way of "taking away."

Counting back



Count back to find out on which step the frog stops.



Write the missing numbers in the boxes.

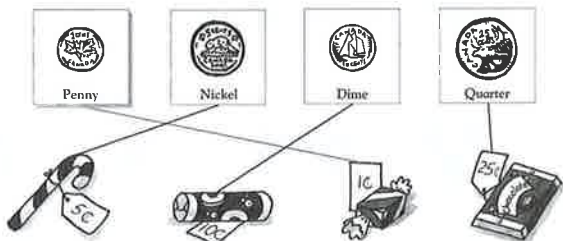
$3 - 3 = 0$ $20 - 10 = 10$ $9 - 3 = 6$ $15 - 10 = 5$
 $5 - 4 = 1$ $8 - 8 = 0$ $5 - 5 = 0$ $20 - 16 = 4$
 $15 - 4 = 11$ $19 - 9 = 10$ $6 - 4 = 2$ $18 - 7 = 11$
 $10 - 9 = 1$ $16 - 9 = 7$ $10 - 6 = 4$ $13 - 3 = 10$

Make sure children understand that counting back is simply the reverse of counting on. Some children might find it helpful to use a number line to check the answers.

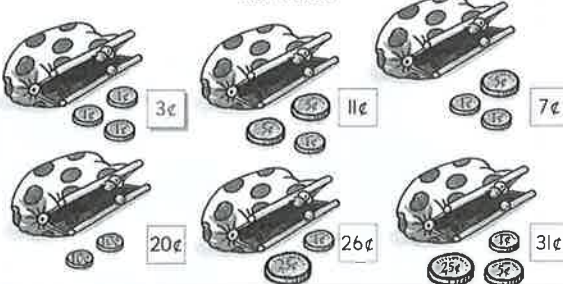
Money



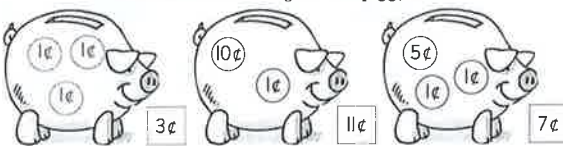
Which coin?



How much?



Put the correct change in the piggy bank.

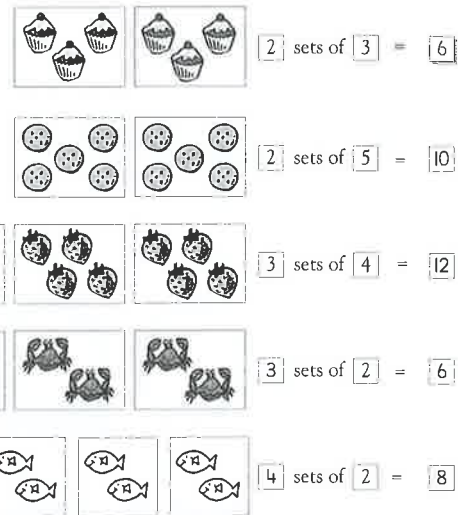


In the last activity, a number of combinations could be correct, and it might be helpful to re-count the amounts with children. For example: 1¢ 1¢ 1¢ 1¢ 1¢ 1¢ 1¢ or 5¢ 1¢ 1¢. Encourage children to use fewer coins when possible.

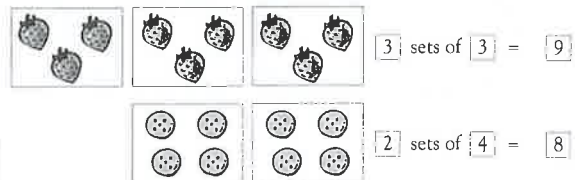


Sets

Write the missing numbers in the boxes.



Draw pictures in the boxes to match the equations.

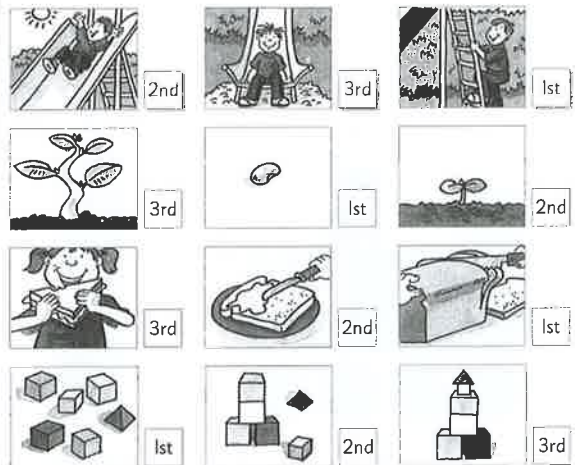


Talk with children about the pictures and what they show. If children have difficulties, make sure they haven't simply added the two numbers given beside the sets, e.g. 2 sets of 3 added together to make 5.

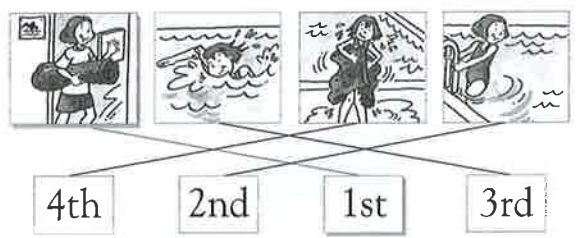


Ordering stories

Which happens 1st, 2nd, and 3rd?



Match the pictures to the order in which they happened.



Ask children to explain their reasons for each set of pictures in a particular way. If children have difficulty with the last set of pictures, point out that the girl's hair is dry when she is standing on the ladder into the pool.



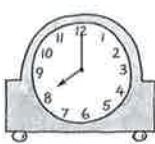
Write the time in each box.



3 o'clock



5 o'clock

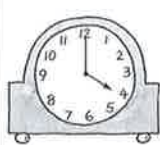


8 o'clock



11 o'clock

Draw the hands on the clock faces.



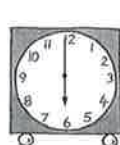
4 o'clock



10 o'clock



1 o'clock

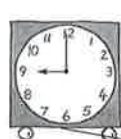


6 o'clock

Match the times to the clocks.



12 o'clock



7 o'clock

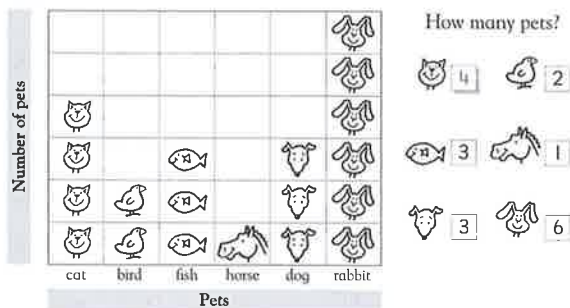


2 o'clock

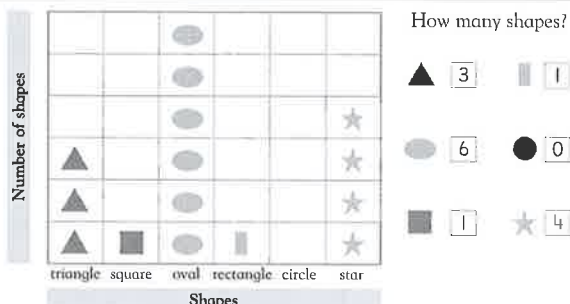


9 o'clock

Explain to children that when the hour hand (the short hand) points exactly to an hour, the minute hand (the long hand) should point exactly to 12 on the clock face.



Draw the pet that matches the number.



Which shape matches each number?

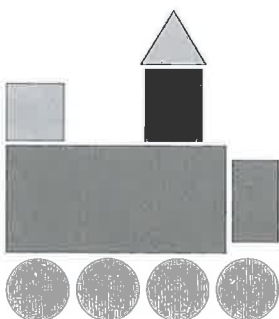


Talk with children about the graphs and what they show. Discuss the numbers and labels on the graphs and what they mean. Explain that graphs show information that can be used to solve problems.



□ = yellow △ = green ○ = purple ▭ = blue

Colour the shapes.



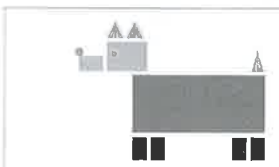
How many?



Colour the shapes.



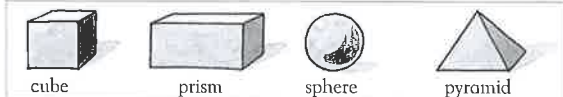
How many?



Draw a picture using the shapes shown on this page.



For the last activity, talk to children about their pictures. Encourage them to name each shape used and to state how many of each shape they used.



Match the shapes to the names.



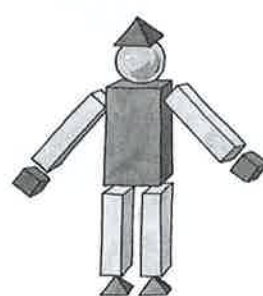
pyramid

sphere

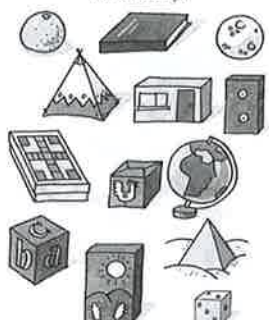
cube

prism

How many?



How many?



Make sure that children recognize the same shapes when they are positioned differently. For example, they should recognize an upside-down pyramid.

Writing numbers



Count, write, and say the number of letters.

Christina 9 nine

Tarrik 5 five

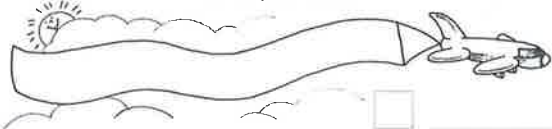
Grandpa 7 seven

Happy Birthday 13 thirteen

Good Morning Everyone 19 nineteen

How are you today? 14 fourteen

Write your name.



Make up your own message.



Make sure that children understand they are to write the *number* of letters in the names and spell out the numbers. Praise their attempts if they are able to recognize letter patterns such as *teen* and use them to spell numbers such as *fourteen*, etc.

Counting on by 2s



Hop by 2s. Colour the squares.

Elizabeth Even

Oliver Odd

What letters will you find? Say the numbers as you draw.

Write the numbers.

Even numbers

2 4 6 8 10 12 14 16 18 20

Odd numbers

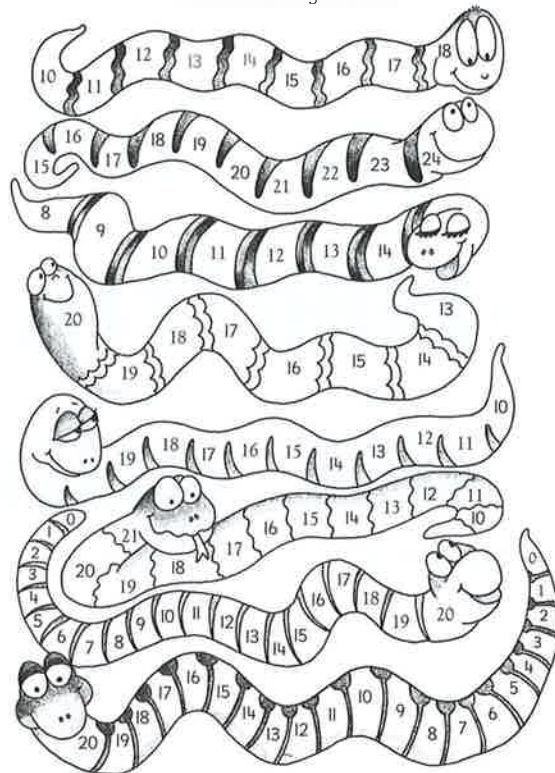
1 3 5 7 9 11 13 15 17 19

Talk with children about the difference between Elizabeth Even's hops and Oliver Odd's hops. Tell them that counting by 2s is the same as counting every other number. Have children recite the sequences to become familiar with them.



Counting

Write the missing numbers.

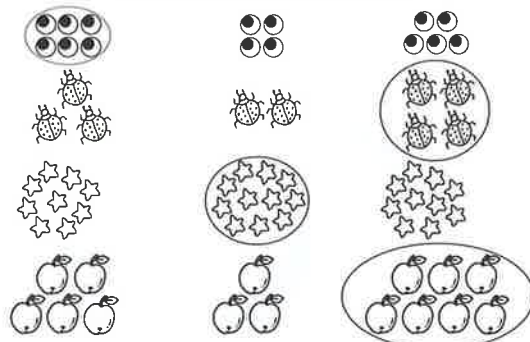


Some children may find it difficult to "cross over" a ten, e.g., from 19 to 20, 21 and so on. Encourage them to see that after a number ends in 9, the next number ends in 0, and then the counting sequence begins again.

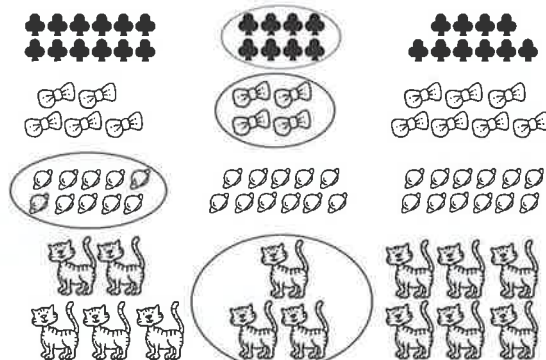


Most and least

Circle the set with the most items in it.



Circle the set with the least items in it.



Children might need to count each set individually to find out which of three sets of items has the most or the least. Children can use counters, if necessary.

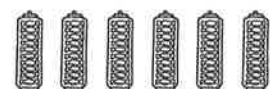
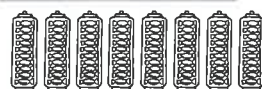
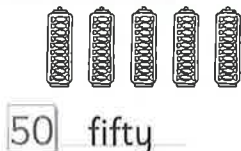
Counting by 10s



Use this number line to help you.

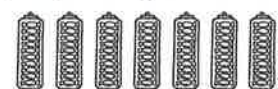
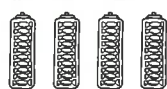


How many candies? Count, say, and write.



80 eighty

60 sixty



40 forty

70 seventy

Put the numbers in the right order.

100 60 100 50 20 70 90 30 40 80
 10 20 30 40 50 60 70 80 90 100

Greatest first

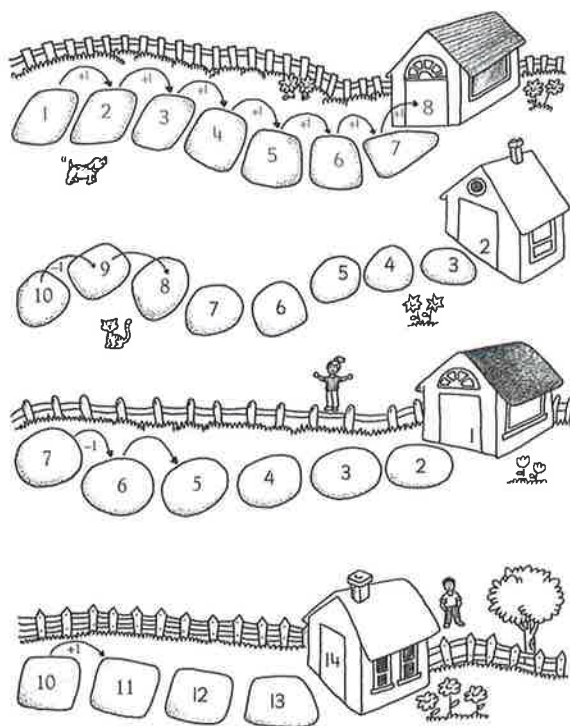
100 90 80 70 60 50 40 30 20 10

Point out the link between the sounds of some numbers, such as six and sixty, but also point out the exceptions. Check the spelling of *forty* (not *fourty*). Also point out that 100 is *one hundred*, not *ten-ty*, and 20 is *twenty*, not *two-ty*.



Counting forward or back

Draw pathways by writing the missing numbers.

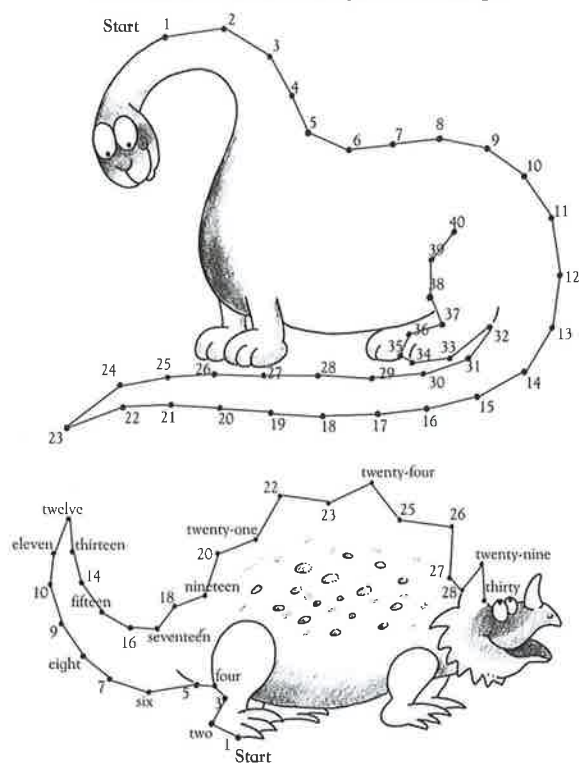


If children have difficulty, let them work with a number line, using both hands. Tell them to keep one finger on the number they are starting from and to use the other hand to count. This way, they will not count the starting number.

Reading numbers



Connect the numbers, and complete the drawings.



Encourage children to use the counting sequence to help them connect the numbers. For the second picture, help students to see that the counting sequence is the same, but some of the numbers are words.



Tens and ones

Write the tens and ones.

tens	ones	tens	ones	tens	ones	tens	ones
2	3	1	9	3	0	2	5
23		19		30		25	

Draw and write the tens and ones.

tens	ones	tens	ones
2	9	3	4
29		34	

Breaking large numbers into parts makes adding them easier. So, $22 + 14$ becomes $20 + 2 + 10 + 4$. Adding the ones first gives $2 + 4 = 6$ and the tens next gives $20 + 10 = 30$. The two partial answers can then be combined to give $30 + 6 = 36$.

Comparisons



Add the values, and write *is greater than* or *is less than*.

16 is greater than 9
 12 is less than 14
 16 is less than 17
 16 is greater than 13

Write the numbers that are 1 more, 1 less, or between.

1 less	between	1 more	1 less	number	1 more
20	21	22	25	26	27
number	between	number	1 less	number	1 more
19	20	21	28	29	30
1 less	number	1 more	number	between	number
10	11	12	30	31	32

Children should make use of addition facts to determine totals. If they manage the greater-than and less-than part of the page well, they could then find out how much greater or less one number is than another.



Comparing money

Colour the one who has the most money.

Draw some coins in the purses.

is less than is less than
 is less than is less than
 is less than is less than

Answers for the lower activity will vary. Make sure that the amount children assign to the first purse is less than the amount on the tag and that the amount children assign to the second purse is greater than that on the tag.

Spot the doubles



Draw the missing spots and write the numbers.

$3 + 3 = 6$
 double 3 is 6
 $4 + 4 = 8$
 double 4 is 8
 $1 + 1 = 2$
 double 1 is 2
 $2 + 2 = 4$
 double 2 is 4
 $6 + 6 = 12$
 double 6 is 12
 $5 + 5 = 10$
 double 5 is 10
 $7 + 7 = 14$
 double 7 is 14
 $10 + 10 = 20$
 double 10 is 20

Encourage children to become familiar with doubles. These facts can then be used in other situations, such as "doubles plus 1."



10 more or 10 less

Draw a line to add 10 to each number on the rocket.

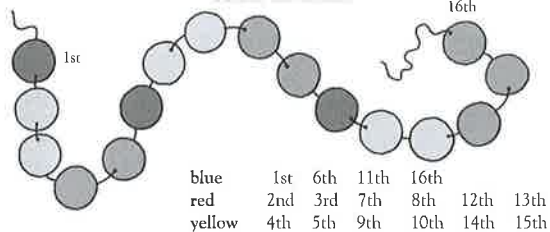
Draw a line to subtract 10 from each number on the rocket.

Familiarity with "10 more" and "10 less" will help to develop the ability to do mental math.

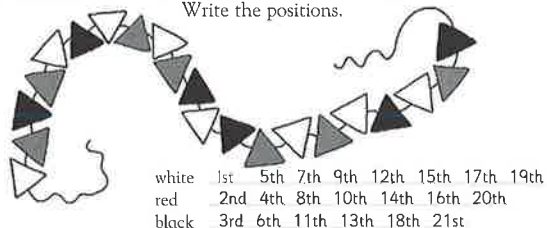
Ordinals



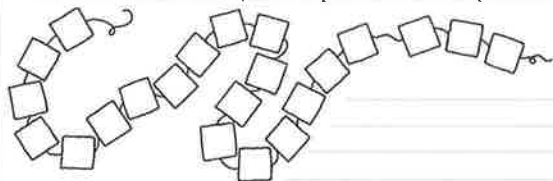
Colour the beads.



Write the positions.



Choose 3 colours. Make your own pattern. Write the positions.

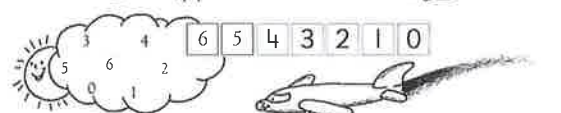
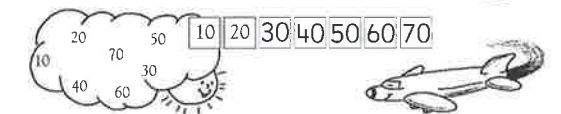
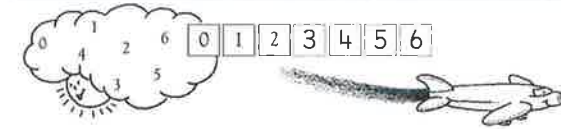
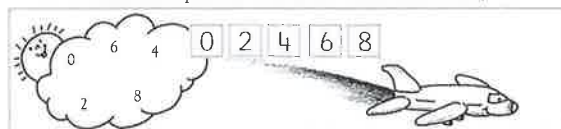


Make sure children understand that the sequence of ordinals is the same as the basic counting sequence.



Ordering

Look for a pattern. Write the numbers in order.

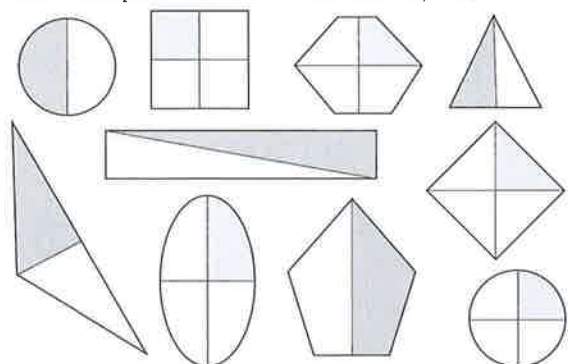


Make sure children understand that some of the patterns require counting on and some require counting back. Children should see that some patterns are familiar, such as counting by 2s, counting by 10s, and the basic counting sequence.

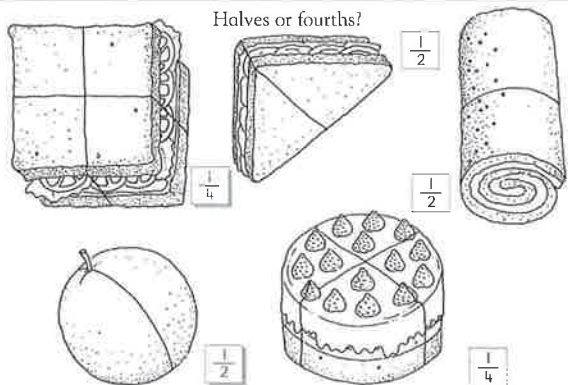
Halves and fourths



For each shape colour one half red or one fourth yellow.



Halves or fourths?



Make sure that children understand that halves must be two exactly equal parts and that fourths must be four exactly equal parts. Encourage children to see that two fourths are the same as one half.



Place value

What is in the ones place in each number?

24	61	87	19
4	1	7	9
65	68	13	42
5	8	3	2

What is in the tens place in each number?

30	94	10	69
3	9	1	6
27	81	18	50
2	8	1	5

What is in the tens place in each number?

12	90	43	58
1	9	4	5

Circle the number that has a 7 in the tens place.

57	79	70
----	----	----

Circle the number that has a 3 in the ones place.

34	93	30
----	----	----

Circle the number that has a 1 in the tens place.

10	61	21
----	----	----

Make sure children understand that the ones are at the right of a number. Children should then see that the tens are just to the left of the ones.



Write each number as a sum of tens and ones.

$$54 = 50 + 4 \quad 12 = 10 + 2 \quad 88 = 80 + 8$$

$$47 = 40 + 7 \quad 29 = 20 + 9 \quad 11 = 10 + 1$$

$$75 = 70 + 5 \quad 51 = 50 + 1 \quad 44 = 40 + 4$$

$$62 = 60 + 2 \quad 93 = 90 + 3 \quad 19 = 10 + 9$$

$$25 = 20 + 5 \quad 74 = 70 + 4 \quad 36 = 30 + 6$$

Write the missing number.

$$80 + 6 = 86 \quad 90 + 7 = 97$$

$$30 + 3 = 33 \quad 60 + 1 = 61$$

$$10 + 5 = 15 \quad 50 + 8 = 58$$

$$20 + 2 = 22 \quad 70 + 9 = 79$$

$$40 + 3 = 43 \quad 90 + 4 = 94$$

Children should be able to apply what they know about place value to help them to understand expanded form. Make sure that children correctly break numbers apart into tens and ones.



Count the dots on the dice.

$$\text{Die with 6 dots} + \text{Die with 3 dots} = 9$$

$$\text{Die with 5 dots} + \text{Die with 3 dots} = 8$$

$$\text{Die with 6 dots} + \text{Die with 1 dot} = 7$$

$$\text{Die with 5 dots} + \text{Die with 3 dots} = 8$$

$$\text{Die with 6 dots} + \text{Die with 5 dots} = 11$$

$$\text{Die with 3 dots} + \text{Die with 2 dots} + \text{Die with 1 dot} = 6$$

$$\text{Die with 6 dots} + \text{Die with 4 dots} + \text{Die with 2 dots} = 12$$

$$\text{Die with 6 dots} + \text{Die with 5 dots} + \text{Die with 4 dots} = 15$$

$$\text{Die with 1 dot} + \text{Die with 6 dots} + \text{Die with 5 dots} = 12$$

Make your own dice problems. You can roll real dice to help.

$$\text{Die with 3 dots} + \text{Die with 2 dots} + \text{Die with 4 dots} + \text{Die with 2 dots} = 11$$

$$\text{Die with 3 dots} + \text{Die with 5 dots} + \text{Die with 1 dot} + \text{Die with 0 dots} = 9$$

$$\text{Die with 3 dots} + \text{Die with 2 dots} + \text{Die with 4 dots} + \text{Die with 2 dots} = 11$$

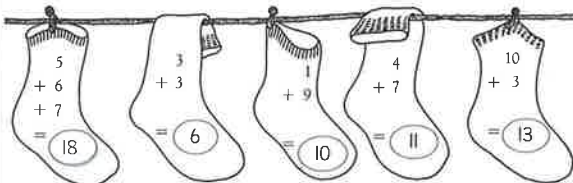
$$\text{Die with 6 dots} + \text{Die with 4 dots} + \text{Die with 2 dots} + \text{Die with 2 dots} = 14$$

$$\text{Die with 6 dots} + \text{Die with 3 dots} + \text{Die with 2 dots} + \text{Die with 2 dots} = 13$$

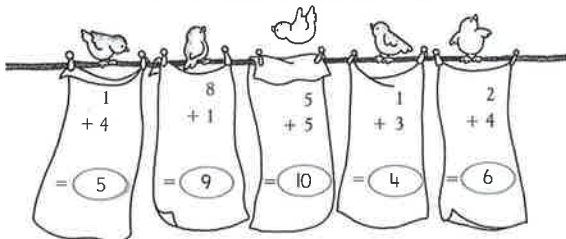
Children can use addition facts to find the answers for the first section. Their answers will vary for the second section. Possible answers are given.



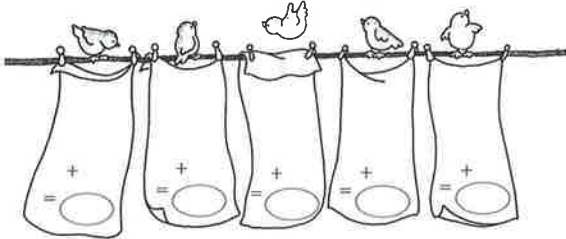
Add up the numbers on the socks.



Add up the numbers on the towels.



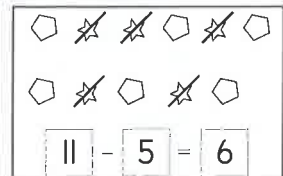
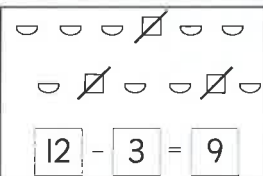
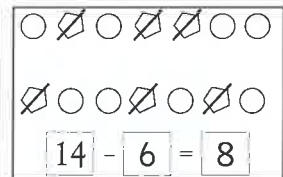
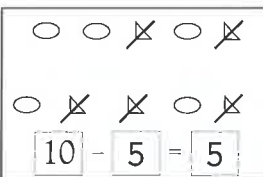
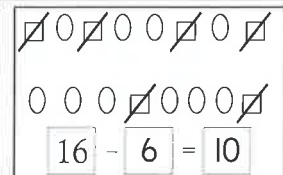
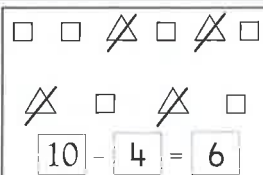
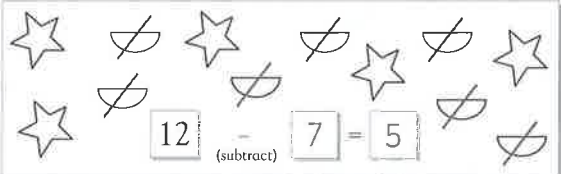
Make up your own number towels.



Encourage children to use addition facts to help them to find the totals.



Cross out one type of shape in each box.



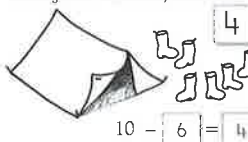
It doesn't matter which set of shapes children choose to cross out. Point out that crossing out pictures is like subtracting these objects. Answers will vary, depending on which set of shapes children cross out.

Subtraction

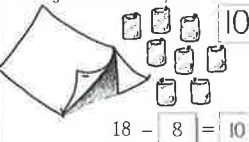


Say and count as you write.

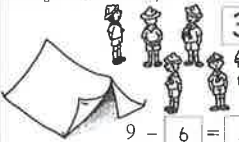
10 altogether. How many in the tent?



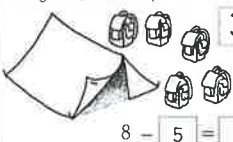
18 altogether. How many in the tent?



9 altogether. How many in the tent?



8 altogether. How many in the tent?



Say as you write.

$16 - 4 = 12$	$18 - 11 = 7$	$12 - 10 = 2$
$15 - 1 = 14$	$19 - 14 = 5$	$15 - 6 = 9$
$9 - 5 = 4$	$17 - 6 = 11$	$11 - 1 = 10$

Say as you write.

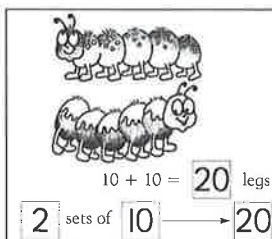
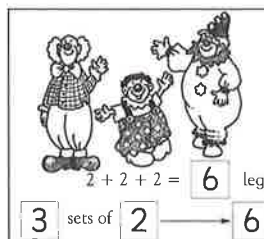
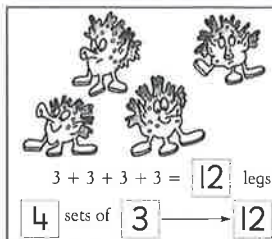
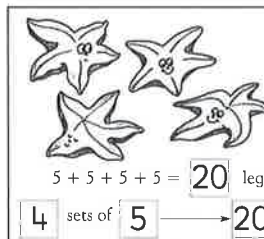
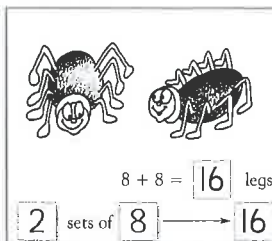
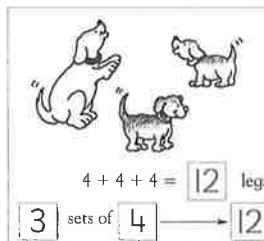
$15 - 5 = 10$	$10 - 10 = 0$	$16 - 0 = 16$
$13 - 10 = 3$	$20 - 20 = 0$	$8 - 8 = 0$

Have children recall fact families for help in solving problems such as $18 - 8 = 10$ and $18 - 10 = 8$. Remind children that a number subtracted from itself gives a difference of zero.



Sets of

Say and count as you write.

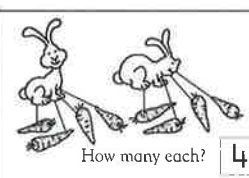
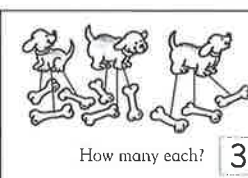
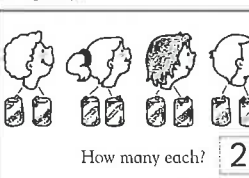
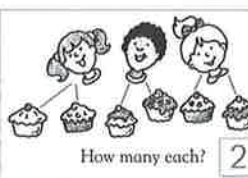


Talk with children about the pictures and what they show. If children have difficulty, make sure that they haven't simply added the two numbers given below the sets: for example, 3 sets of 4 added together to make 7.

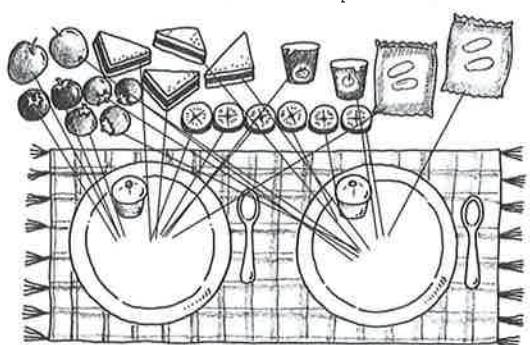
Sharing



Share the food equally.



Draw lines to share the picnic.



Encourage the use of the word *sharing*. Lead children to understand that sharing means separating a group of items into smaller, equal-size groups. For example, 3 dogs sharing 9 bones gives 3 bones to each dog.



Addition properties

Write the missing number.

$6 + 0 = 6$	$0 + 6 = 6$
$10 + 7 = 17$	$7 + 10 = 17$
$11 + 0 = 11$	$0 + 11 = 11$
$4 + 8 = 12$	$8 + 4 = 12$
$13 + 6 = 19$	$6 + 13 = 19$
$0 + 3 = 3$	$3 + 0 = 3$

Circle the addition fact that has the same sum as $2 + 3$.

$1 + 5$	$3 + 2$	$4 + 2$
---------	---------	---------

Circle the addition fact that has the same sum as $5 + 8$.

$8 + 5$	$6 + 6$	$3 + 9$
---------	---------	---------

Circle the addition fact that has the same sum as $1 + 7$.

$8 + 2$	$2 + 5$	$7 + 1$
---------	---------	---------

Circle the addition fact that has the same sum as $10 + 6$.

$7 + 4$	$9 + 9$	$6 + 10$
---------	---------	----------

Circle the addition fact that has the same sum as $4 + 2$.

$1 + 6$	$2 + 4$	$3 + 2$
---------	---------	---------

Circle the addition fact that has the same sum as $9 + 5$.

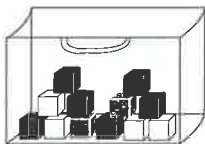
$5 + 9$	$7 + 6$	$10 + 5$
---------	---------	----------

Guide children to understand that the sum of zero and any number is that number. Also, the sum of any two numbers is the same, no matter which of the numbers comes first.

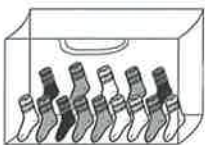
Most and least likely



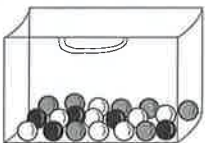
What are you most likely to pick out of each bag? Circle the answer.



a black cube
a grey cube
a white cube

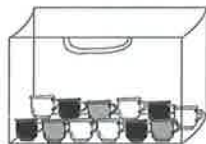


a black sock
a grey sock
a white sock

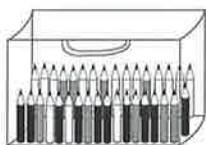


a black marble
a grey marble
a white marble

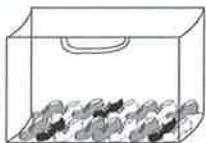
What are you least likely to pick out of each bag? Circle the answer.



a black tea cup
a grey tea cup
a white tea cup



a black pencil
a grey pencil
a white pencil



a black boot
a grey boot
a white boot

Children should understand that the most likely item is the item of which there are the most and that the least likely item is the item of which there are the fewest.

Using clocks



Write the time.



8 o'clock



half past 10



7 o'clock



half past 4



half past 8



4 o'clock



half past 2



half past 12

Draw the hands.



half past 7



1 o'clock



half past 9



half past 6



half past 1



11 o'clock



half past 8



2 o'clock

Children should understand that at half past the hour, the long hand (the minute hand) must point to the 6 on the clock face.



Days and seasons

Days of the week

Can you write them in order?

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Wednesday Thursday Friday Saturday Sunday Monday Tuesday

Saturday Sunday Monday Tuesday Wednesday Thursday Friday

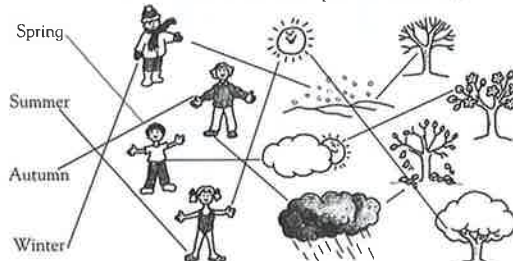
Thursday Friday Saturday Sunday Monday Tuesday Wednesday

Yesterday and tomorrow

yesterday	today	tomorrow
Tuesday	Wednesday	Thursday
Sunday	Monday	Tuesday
Wednesday	Thursday	Friday
Saturday	Sunday	Monday

Seasons of the year

Draw lines to connect each picture to a season.



Children need to know the order of the days. They should also know that the name of each day begins with a capital letter. Ask children to explain their reasons for connecting the season pictures the way they did.



Favourite fruits

This table shows the favourite fruits of a class of children.

grapes									
strawberries									
bananas									
cherries									
oranges									
apples									

Number of children

How many preferred each fruit?

3 8 5 1 3 4

Which fruit? Draw.

5 8 1 3

Say and draw.

The fruit chosen most often is



The fruit chosen least often is



More children chose



than



My favourite is

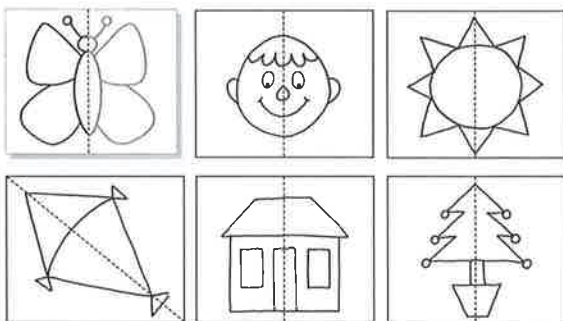


Children should be able to give reasons for their choices. Make sure they understand that each individual drawing of a fruit or a bunch of fruit on the table stands for one child in the class.

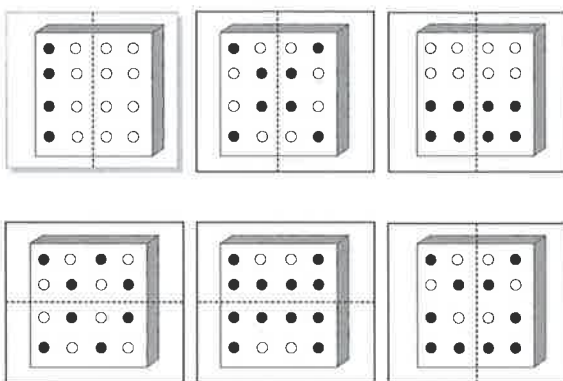
Draw the other half



Finish the pictures.



Make the two halves of the pegboards match. Colour them in.

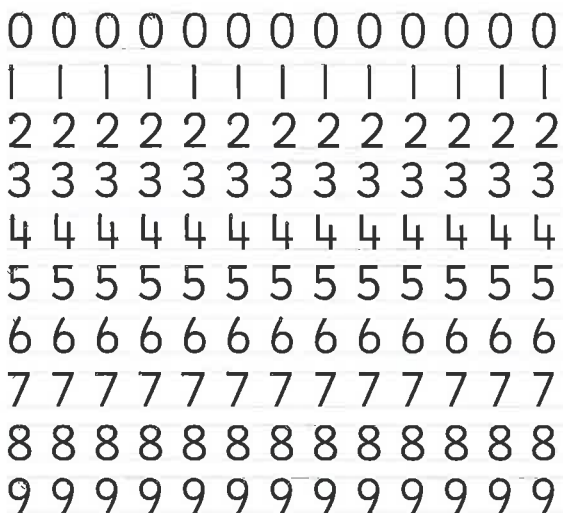


Placing a small mirror along the line of symmetry will enable children to see the complete image. For the second activity, it is important to understand that the unmarked half should be a mirror image of the marked half.

Numbers



Write the numbers.



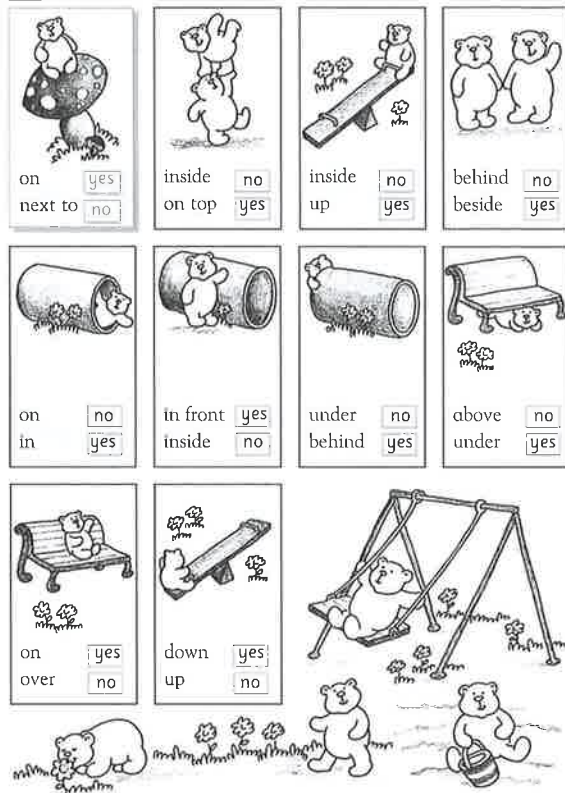
Continue the pattern.



Children need to practise writing numbers correctly. Explain to children that they should write each number beginning from the top of the number.



Where's the bear?



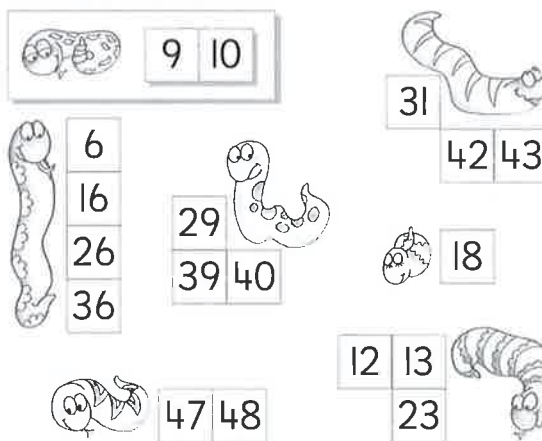
Read the words with children before they do the page. Point out that sometimes more than one term may describe similar positions. For example, *above* can sometimes be used in place of *on top*.



Numbers

Which numbers are the snakes hiding?
Say the numbers as you write the answers.

1	2	3	4	5		7	8	
11		14	15		17		19	20
21	22		24	25		27	28	
	32	33	34	35		37	38	
41		44	45	46		49	50	



Encourage children to look at the patterns in the numbers as they read down columns. They should also know the basic counting sequence. Make sure children understand that a snake can hide numbers that do not form a sequence.



How many are there in all? Colour them in.

$$\triangle \triangle \triangle + \triangle \triangle \triangle = \blacktriangle \blacktriangle \blacktriangle \blacktriangle \blacktriangle \blacktriangle \triangle \triangle$$

$$\bigcirc \bigcirc \bigcirc + \bigcirc \bigcirc = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\square \square + \square \square = \blacksquare \blacksquare \blacksquare \blacksquare \square \square \square \square$$

$$\begin{array}{c} \text{☾} \text{☾} \\ \text{☾} \end{array} + \begin{array}{c} \text{☾} \text{☾} \\ \text{☾} \text{☾} \end{array} = \begin{array}{c} \text{☾} \text{☾} \text{☾} \\ \text{☾} \text{☾} \text{☾} \\ \text{☾} \text{☾} \end{array}$$

$$\begin{array}{c} \text{🐟} \text{🐟} \\ \text{🐟} \text{🐟} \\ \text{🐟} \end{array} + \begin{array}{c} \text{🐟} \\ \text{🐟} \end{array} = \begin{array}{c} \text{🐟} \text{🐟} \text{🐟} \\ \text{🐟} \text{🐟} \text{🐟} \\ \text{🐟} \text{🐟} \text{🐟} \\ \text{🐟} \text{🐟} \end{array}$$

Children may either count to find the total or determine the number of items on either side of the addition symbol and add the two numbers to find the total.



Which tally marks show 13?



Which tally marks show 15?



Which tally marks show 17?



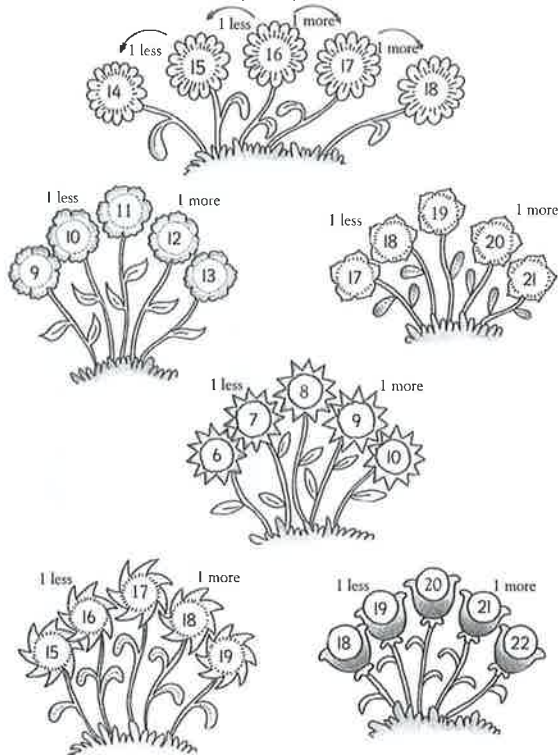
Which tally marks show 23?



Make sure children understand that each complete tally-mark set represents 5. Children can then determine totals by counting by 5s and then counting on.



Count, draw, and write.



Children should understand that *1 less* means that they should subtract 1 and that *1 more* means that they should add 1. Help them, if necessary, to cross tens, such as adding 1 more to 19.



Use the table to answer the questions.
Circle the correct answer.

Glasses of water		
Name	Saturday	Sunday
Sasha	4	6
William	6	4
Anita	6	8
Nabi	5	7

Who drank less water on Saturday?

Sasha Nabi

How many glasses of water did Anita drink on Sunday?

4 8 7

Who drank 7 glasses of water on Sunday?

Nabi Anita

Who drank a total of 10 glasses of water?

Nabi William

Who drank the most glasses of water?

Nabi Anita

Who drank less water on Sunday?

Anita Nabi

How many glasses of water did Sasha and William together drink on Saturday?

10 12

If children have difficulty reading the names in the table, point out to them that they can identify the names in the questions by matching them with the spellings of the names in the table.



Count, colour, and find a pattern.

Count by 2s and colour them red.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Count by 5s and colour them purple.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Count by 10s and colour them yellow.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50

Discuss the patterns made. Ask children to look for any numbers that are coloured in all the patterns. (The 10s will be.) Guide children to see that all the numbers in the pattern formed by counting by 5s end in a 5 or a 0.



Connect the spaceships to the planets and the rockets to the stars.

1 more

10 more

1 less

10 less

Discuss the changes for each set of numbers. Point out to children that, in some cases, both the tens digit and the ones digit change. Remind children that *more* means they must add and that *less* means they must subtract.



Write the numbers in order.

smallest first

7 16 26 30 39 45

greatest first

30 25 20 15 10 5

smallest first

3 12 21 23 32 41

greatest first

50 40 30 20 10 0

Watch out for possible reversals such as reading 16 as 61. In the third section, 23, 32, 12, and 21 have been included to deal with such reversals. Ask children to identify the place values of the digits in 23 and 32.



Colour one third ($\frac{1}{3}$).

Is it $\frac{1}{3}$? Yes or no.

no

yes

no

no

yes

yes

Explain why some of the pictures in the second section do not show one third, even though each shape is cut into three pieces. (The pieces are not all of equal size.)



How many are there in all? Colour them in.

$$\bigcirc \bigcirc \bigcirc + \bigcirc \bigcirc \bigcirc \bigcirc = \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bigcirc$$

$$\bigcirc \bigcirc \bigcirc + \bigcirc \bigcirc = \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$$

$$\text{fish} + \text{fish} = \text{fish}$$

$$\text{cube} + \text{cube} = \text{cube}$$

$$\text{fish} + \text{fish} = \text{fish}$$

Suggest to children that they write the number of items below each group on either side of the addition symbol. When they find the total, they can write that number under the items they have coloured in.



Draw rings around the pairs of numbers that add up to 20.

15	5	3	10	10	4	19
8	6	20	0	9	1	10
12	13	7	12	0	16	1
4	5	10	16	4	5	10
9	2	18	7	20	3	10
11	3	3	1	0	11	9
17	1	1	19	3	18	11

If children find this page difficult, encourage them to find 20 objects, such as counters or pennies and find different ways of separating them into 2 groups, such as 2 and 18, 15 and 5. Children can then look for these pairs of numbers.



Use three coins each time.
How many different totals can you make?



$$10\text{p} + 1\text{p} + 1\text{p} = 12\text{p}$$

$$25\text{p} + 5\text{p} + 1\text{p} = 31\text{p}$$

Suggested total only.

$$25\text{p} + 1\text{p} + 1\text{p} = 27\text{p}$$

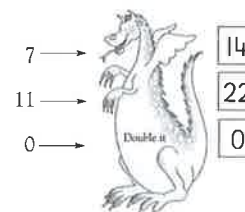
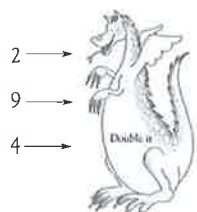
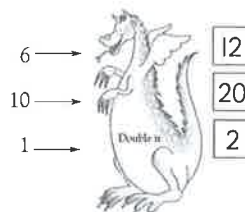
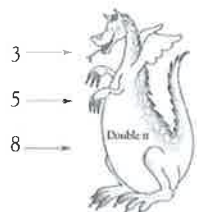
$$1\text{p} + 5\text{p} + 10\text{p} = 16\text{p}$$

$$10\text{p} + 10\text{p} + 10\text{p} = 30\text{p}$$

Encourage children to keep track of the different combinations of coins that they use. In this way, they can avoid repeating combinations.



Write the missing numbers.



What has been doubled? Write the missing number.

Double is 8

Double is 16

Double is 18

Double is 20

Double is 14

Double is 6

Double is 12

Double is 10

Double is 4

Double is 2

Explain that doubling is the same as adding two sets of the same number. If children cannot yet double in their heads, use counters to make two sets of the number, and add them.

Fact families



Complete each fact family.

<p>4, 5, 9</p> $\begin{array}{rcl} 4 & + & 5 = 9 \\ 5 & + & 4 = 9 \\ 9 & - & 4 = 5 \\ 9 & - & 5 = 4 \end{array}$	<p>3, 4, 7</p> $\begin{array}{rcl} 3 & + & 4 = 7 \\ 4 & + & 3 = 7 \\ 7 & - & 3 = 4 \\ 7 & - & 4 = 3 \end{array}$
<p>2, 4, 6</p> $\begin{array}{rcl} 2 & + & 4 = 6 \\ 4 & + & 2 = 6 \\ 6 & - & 4 = 2 \\ 6 & - & 2 = 4 \end{array}$	<p>3, 5, 8</p> $\begin{array}{rcl} 3 & + & 5 = 8 \\ 5 & + & 3 = 8 \\ 8 & - & 3 = 5 \\ 8 & - & 5 = 3 \end{array}$

Make sure children understand that a fact family consists of four number sentences: two are addition sentences, and two are subtraction sentences. Encourage students to see the inverse relationship between addition and subtraction with these facts.



Addition

Add to find each sum.

$$\begin{array}{r} 13 \\ + 4 \\ \hline 17 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 0 \\ + 5 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 10 \\ + 9 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 10 \\ + 3 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 10 \\ + 4 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 10 \\ + 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 12 \\ + 3 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 16 \\ + 3 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 14 \\ + 3 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 12 \\ + 5 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 17 \\ + 1 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 12 \\ + 4 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 10 \\ + 7 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 11 \\ + 7 \\ \hline 18 \end{array}$$

If children have difficulty with these exercises, make sure that they are adding in the correct order. In other words, they should add the ones first and then add the tens.

Subtraction



Subtract to find the difference.

$$\begin{array}{r} 14 \\ - 3 \\ \hline 11 \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 19 \\ - 7 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 13 \\ - 2 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 14 \\ - 4 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 19 \\ - 3 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 16 \\ - 3 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 16 \\ - 5 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 18 \\ - 7 \\ \hline 11 \end{array}$$

$$\begin{array}{r} 17 \\ - 5 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 14 \\ - 2 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 17 \\ - 4 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 17 \\ - 1 \\ \hline 16 \end{array}$$

Make sure children begin by subtracting the ones. If children have difficulty, point out to them that they have no tens to subtract, so they can write the tens value in the answer.



Subtraction

Subtract to find the difference.

$$\begin{array}{r} 80 \\ - 30 \\ \hline 50 \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 30 \\ - 20 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 50 \\ - 30 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 40 \\ - 20 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 20 \\ - 10 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 40 \\ - 30 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 50 \\ - 20 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 60 \\ - 40 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 90 \\ - 30 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 70 \\ - 30 \\ \hline 40 \end{array}$$

$$\begin{array}{r} 90 \\ - 40 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 40 \\ - 10 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 50 \\ - 40 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 90 \\ - 70 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 80 \\ - 10 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 60 \\ - 50 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 40 \\ - 40 \\ \hline 0 \end{array}$$

Point out to children that although they are subtracting two-digit numbers, the ones digit in each number is zero, so each answer will have a zero in the ones place. Children should understand that subtracting any number from itself leaves zero.



Subtract to find the difference.

$$\begin{array}{r} 87 \\ -34 \\ \hline 53 \end{array}$$

Subtract to find each difference.

$$\begin{array}{r} 39 \\ -27 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 58 \\ -32 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 44 \\ -11 \\ \hline 33 \end{array}$$

$$\begin{array}{r} 27 \\ -17 \\ \hline 10 \end{array}$$

$$\begin{array}{r} 46 \\ -33 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 59 \\ -46 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 75 \\ -31 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 88 \\ -14 \\ \hline 74 \end{array}$$

$$\begin{array}{r} 77 \\ -33 \\ \hline 44 \end{array}$$

$$\begin{array}{r} 93 \\ -22 \\ \hline 71 \end{array}$$

$$\begin{array}{r} 67 \\ -53 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 38 \\ -22 \\ \hline 16 \end{array}$$

$$\begin{array}{r} 99 \\ -79 \\ \hline 20 \end{array}$$

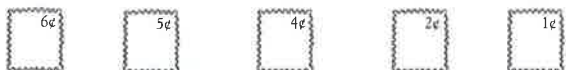
$$\begin{array}{r} 82 \\ -70 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 69 \\ -69 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 47 \\ -46 \\ \hline 1 \end{array}$$

This page presents straightforward subtraction with two-digit numbers, with no regrouping. Make sure that children subtract in the correct order, that is, they should subtract the ones first and then the tens.

Real-life problems



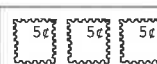
Draw the stamps on the letters.
You can use any stamp more than once.



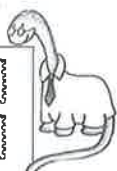
Ms. Heather Hedgehog
1 The Leaf Pile
Snowdrop Corner
Garden City



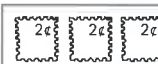
12¢



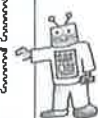
Doctor Dilly Dinosaur
6 The Swamp
Mud Town



20¢



Rachel Robot
999 Mechanical Mansion
Metalville



10¢



Cheeky Charlie Chimp
100 Banana Court
Giggleton
Apeland



18¢



Mr. Bertie Bear
The Toy Box
Betty's Bedroom
The Big House



11¢



Samuel Spider
Wonder Web
Grandpa's Greenhouse
South Central Garden



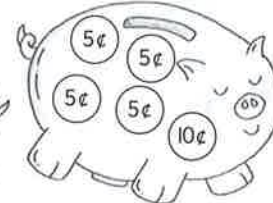
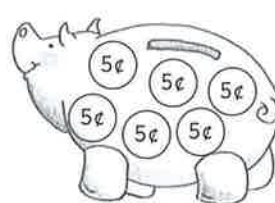
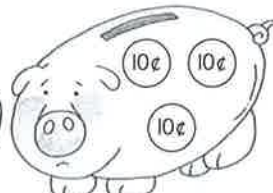
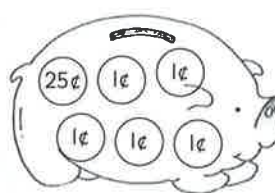
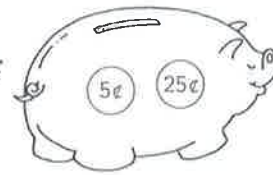
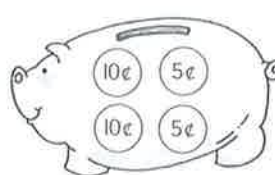
6¢

Children may use different stamp combinations to reach the totals. In real-life situations, most people would use as few stamps as possible. For 6¢ postage, a 5¢ stamp and a 1¢ stamp would be better than six 1¢ stamps.



Real-life problems

All the piggy banks need 30¢. Draw different coins in each one.
You can use any coin more than once.



Explain that to make 5¢, five 1¢ coins or a 5¢ coin can be used. So, 10¢ can be made with any of these combinations plus a 5¢ coin. Then another 10¢ coin will make 20¢.



Subtraction tables

Finish each table.

-	2	3	5	10
11	9	8	6	1
15	13	12	10	5
20	18	17	15	10

-	1	6	8	9
14	13	8	6	5
19	18	13	11	10
20	19	14	12	11

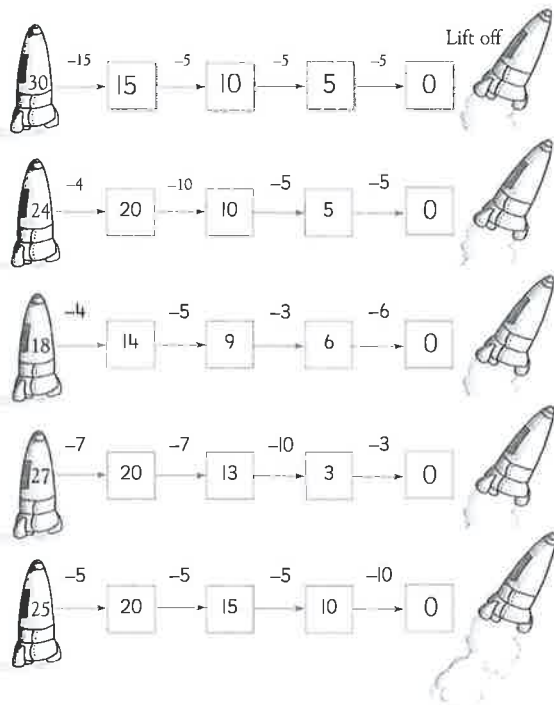
-	0	4	7	11
12	12	8	5	1
28	28	24	21	17
18	18	14	11	7

Ask children to point out on the table where the information is and where the answers should go. If they need help, tell them to subtract each number in the top row from each number in the left-hand column.

Counting down



The rocket can only lift off at zero.
Use subtraction to get to 0 in 4 moves.

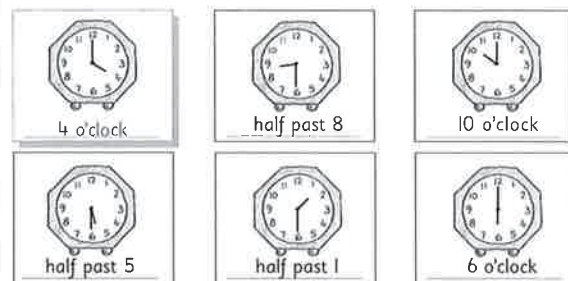


Answers will vary. If children reach zero too soon, they can look for ways to use smaller numbers. If they don't reach zero, they can look for larger numbers to subtract.

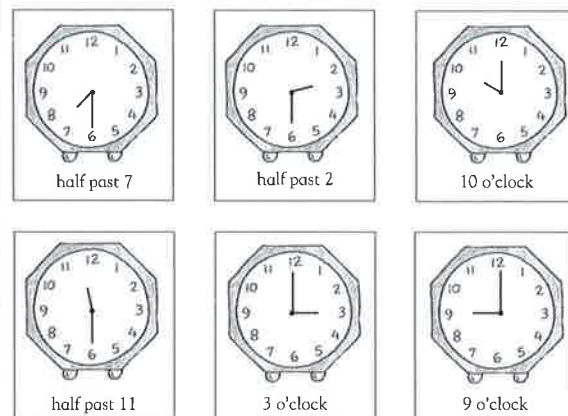


Clocks

Write the times under the clocks.



Draw the hands.

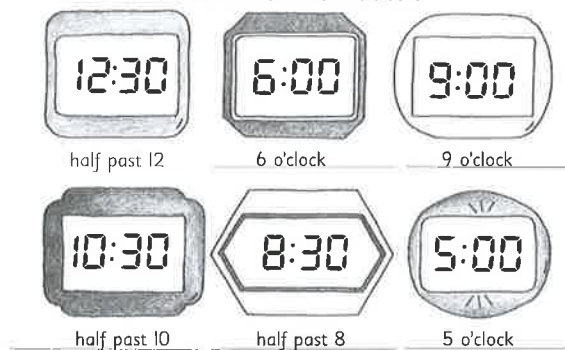


The lengths of the clock hands show that times such as half past 12 and 6 o'clock are different. Remind children that the long hand is the minute hand and the short hand is the hour hand.

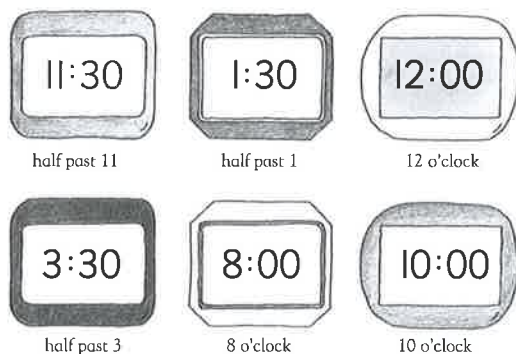
Digital clocks



Write the times under the clocks.



Fill in the digital times on the clock faces.

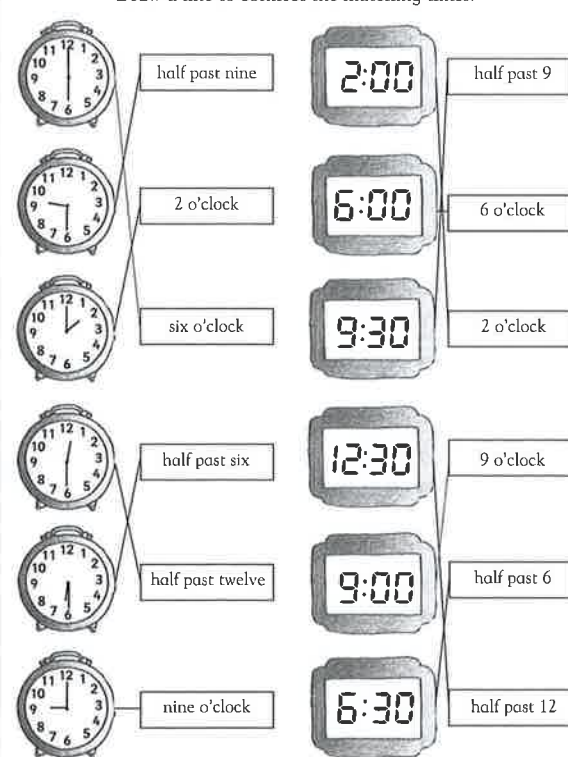


Watch out for confusion between the digital versions of 5 and 2. Point out to children that the start positions of both digital and regular numbers are the same.



Match the times

Draw a line to connect the matching times.



Ask children to talk about digital times, as compared with times shown on analog clock faces. Ask them which they find easier to read.

Do you know?



Put the months in order by writing a number on each page.



How many ...

... seconds in a minute?

60

... minutes in an hour?

60

... hours in a day?

24

... days in a week?

7

... days in a year?

365

... months in a year?

12

Learn this rhyme.



30 days have September,
April, June, and November.

All the rest have 31,
Except February alone
That has 28 days clear
29 in each leap year.

How many days are there in your birthday month?

31

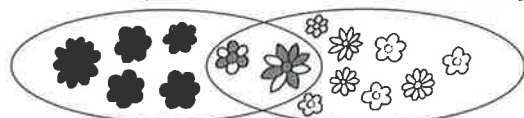
These numbers are all facts that have to be learned rather than developed. Children can learn the rhyme and then have fun answering questions about the number of days in the month in which there is a certain holiday.

Venn diagrams



Flowers with red petals

Flowers with white petals



How many flowers have ...

... red petals?

7

... white petals?

10

... both red
and white petals?

2

Shapes with straight sides

Shapes with curved sides



How many shapes have ...

... straight sides?

8

... curved sides?

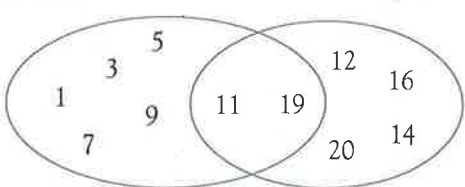
6

... straight and
curved sides?

3

Odd numbers

Numbers greater than ten



How many numbers are ...

... odd?

7

... more than ten?

6

... odd and more
than ten?

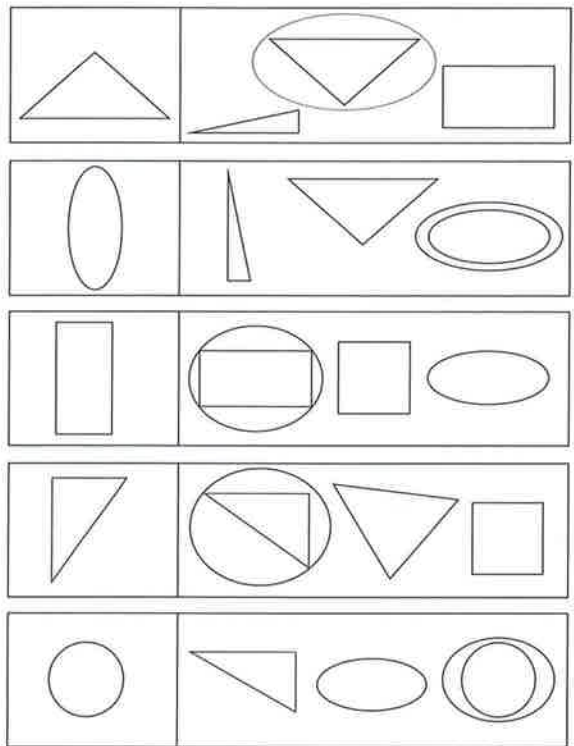
2

Make sure children understand that the items in the part of the diagram where the two ovals intersect are a part of both sets of items. They must be included when counting either of the main sets.



Matching shapes

Ring the shape that matches the first shape.

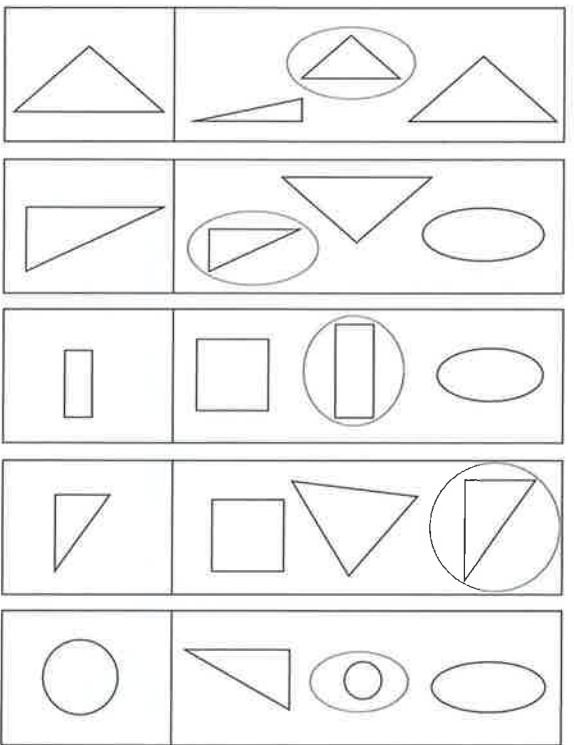


Make sure children understand that two shapes can match each other exactly even if they are not oriented in the same way. Make sure they understand the difference between shapes that have straight edges and shapes that are curved.



Similar shapes

Ring the shape that is the same but of a different size.

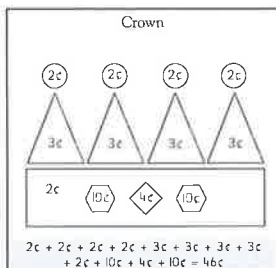
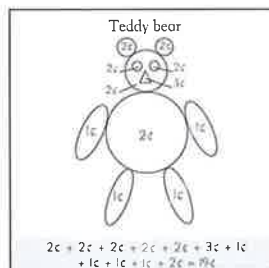
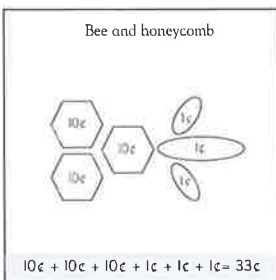
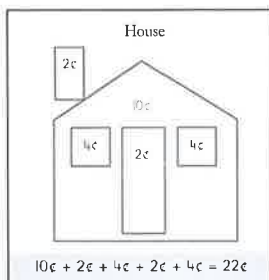
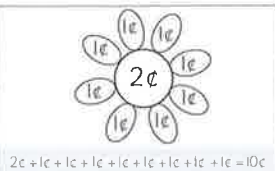
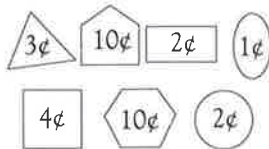


Children might need help in grasping the idea of same shape, different size. Remind children to eliminate obviously incorrect choices first.

2-dimensional shapes



Add the costs to find the cost of each picture.



Encourage children to find their own ways of making the addition simpler. If children find adding difficult, help them to use counters to count out the individual amounts and then find the total.



3-dimensional shapes

Label the 3-D shapes.

(cone, cylinder, pyramid, cube, sphere, rectangular prism)



cube



cylinder



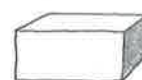
pyramid



cone

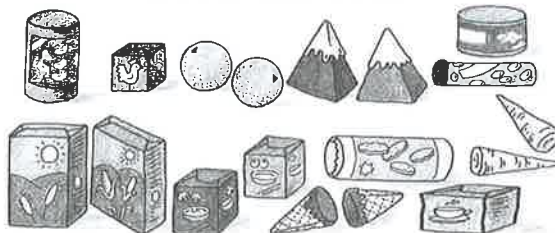


sphere



rectangular prism

How many of each 3-D shape?



cube 3 rectangular prism 3 cone 4 cylinder 4
pyramid 2 sphere 2

Have children describe the differences between a cube and a prism or between a cone and a cylinder. Children should begin to use appropriate mathematical language such as *curved*, *straight*, *corners*, *sides*, and so on.

Read, write, and draw



Write the numbers and draw the pictures.

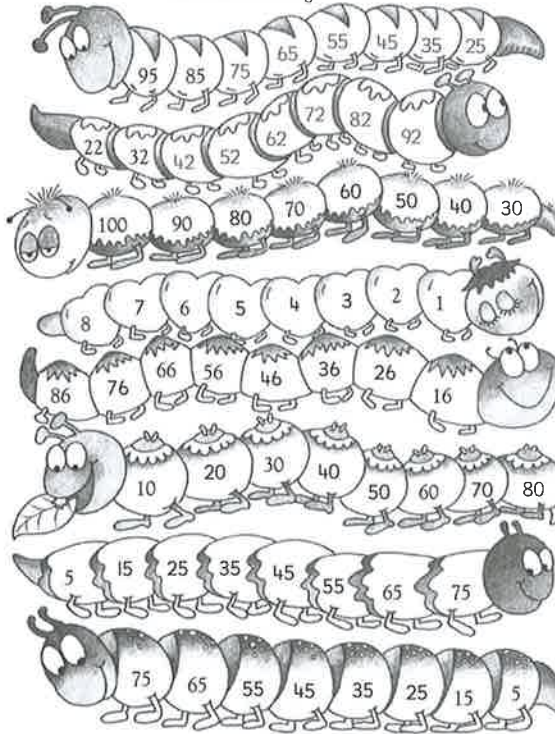
16	sixteen	
19	nineteen	
10	ten	
12	twelve	
21	twenty-one	
7	seven	
50	fifty	

Children should use their knowledge of place value for this page. For example, in 16, the 1 means one ten, and the 6 means six ones.



Counting

Count on forward or backward by 10s.
Write the missing numbers.

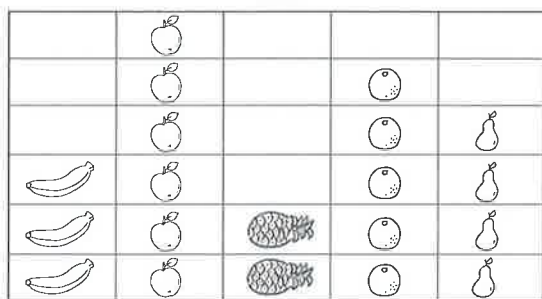


Children should determine whether the numbers are increasing or decreasing. They can then decide whether to count on or to count back. Children should see that the ones digits remain unchanged and the tens digits increase or decrease.

Bar graphs



Fruit



banana apple pineapple orange pear

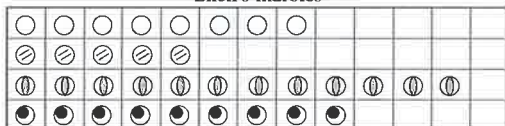
How many pears are there? 4 How many bananas are there? 3

The graph shows 6 apples. The graph shows 2 pineapples.

How many more oranges are there than bananas? 2

How many apples and pears are there altogether? 10

Ellen's marbles



How many striped marbles does Ellen have? 5 How many solid black marbles does Ellen have? 12

How many fewer solid black marbles than striped marbles does she have? 3

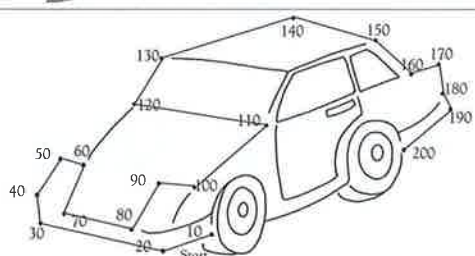
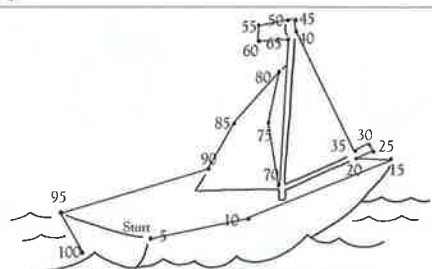
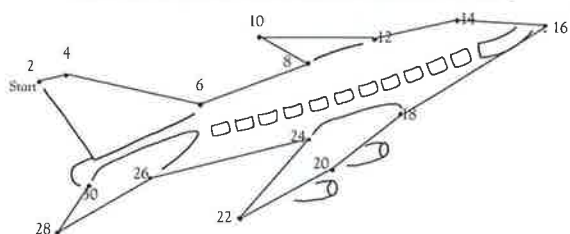
How many white and striped marbles does she have altogether? 13

Discuss with children what the bar graphs show, what the labels mean, and what the drawings or symbols mean. Guide children to compare the heights of the columns or the lengths of the rows to make quick comparisons of amounts.

2s, 5s, and 10s



Count by 2s, 5s and 10s to help you connect the dots.



Make sure that children understand the patterns in the number sequences. Have them practise counting by 2s, 5s, and 10s before connecting the dots.



Subtraction

If each child eats 1 slice, how many slices will be left? 5

If the children eat 6 slices, how many slices will be left? 2

If the children eat 8 slices, how many slices will be left? 0



If each child reads 1 book, how many books will be left? 8



How many books will be left if the children take 6 books altogether? 6

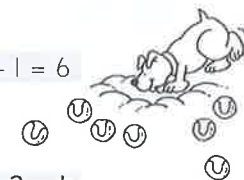
How many books will be left if the children take 9 books? 3

If the dog buries 1 ball, how many balls are left? 6

Write a subtraction sentence. $7 - 1 = 6$

If the dog buries 3 balls, how many balls are left? 4

Write a subtraction sentence. $7 - 3 = 4$



Guide children to see that when they take something away from a set of things or a whole, something is left behind. What is left behind is less than or smaller than what was there originally. This procedure is called subtraction.



Comparing

Complete the boxes.

2 less	number	2 more	number	between	number
51	53	55	96	97	98

number	between	number	3 less	number	3 more
20	21	22	27	30	33

2 less	number	2 more	number	between	number
27	29	31	18	19	20

number	between	number	10 less	number	10 more
31	32	33	9	19	29

5 less	number	5 more	number	between	number
20	25	30	40	41, 42, 43, 44	45

number	between	number	5 less	number	5 more
39	40	41	10	15	20

Make sure children understand the meaning of *more*, *less*, and *between*. Have them give examples such as 3 more or 3 less than 10. Children should see that they must fill in the sequence of numbers that lie between two numbers.

Fact families



Use the 3 numbers to write 4 different facts.

$6 + 7 = 13$

$7 + 6 = 13$

$13 - 7 = 6$

$13 - 6 = 7$

$16 + 4 = 20$

$4 + 16 = 20$

$20 - 4 = 16$

$20 - 16 = 4$

$6 + 5 = 11$

$5 + 6 = 11$

$11 - 5 = 6$

$11 - 6 = 5$

$7 + 8 = 15$

$8 + 7 = 15$

$15 - 7 = 8$

$15 - 8 = 7$

$8 + 12 = 20$

$12 + 8 = 20$

$20 - 8 = 12$

$20 - 12 = 8$

$10 + 8 = 18$

$8 + 10 = 18$

$18 - 10 = 8$

$18 - 8 = 10$

$8 + 9 = 17$

$9 + 8 = 17$

$17 - 9 = 8$

$17 - 8 = 9$

$9 + 7 = 16$

$7 + 9 = 16$

$16 - 9 = 7$

$16 - 7 = 9$

$14 + 6 = 20$

$6 + 14 = 20$

$20 - 14 = 6$

$20 - 6 = 14$

$11 + 8 = 19$

$8 + 11 = 19$

$19 - 11 = 8$

$19 - 8 = 11$

Help children to understand that if they know one addition fact, they can form three other facts: one more addition fact and two subtraction facts. For example, $6 + 7 = 13$ allows the formation of $7 + 6 = 13$, $13 - 6 = 7$, and $13 - 7 = 6$.



Adding money



Add the money. Write the totals in the right squares.

+	2¢	5¢	8¢	6¢
3¢	5¢	8¢	11¢	9¢
11¢	13¢	16¢	19¢	17¢
29¢	31¢	34¢	37¢	35¢
32¢	34¢	37¢	40¢	38¢

+	2¢	4¢	6¢	9¢	3¢
17¢	19¢	21¢	23¢	26¢	20¢
20¢	22¢	24¢	26¢	29¢	23¢
33¢	35¢	37¢	39¢	42¢	36¢
41¢	43¢	45¢	47¢	50¢	44¢

Have children practice writing amounts of money, using the symbol for cents (¢). Discuss strategies for adding money, such as adding the coins of greater value first.

Using doubles



Use the doubles to find the answers.

$6 + 6 = 12$

$10 + 10 = 20$

$6 + 7$

$10 + 11$

$6 + 6 + 1 = 13$

$10 + 10 + 1 = 21$

$6 + 5$

$10 + 9$

$6 + 6 - 1 = 11$

$10 + 10 - 1 = 19$

Use doubles to find the answers.

$4 + 4 = 8$

$4 + 5 = 4 + 4 + 1 = 9$

$4 + 3 = 4 + 4 - 1 = 7$

$7 + 7 = 14$

$7 + 8 = 7 + 7 + 1 = 15$

$7 + 6 = 7 + 7 - 1 = 13$

$8 + 8 = 16$

$8 + 9 = 8 + 8 + 1 = 17$

$8 + 7 = 8 + 8 - 1 = 15$

Double your doubles.

$1 \text{ double it } 2 \text{ double it } 4$

$4 \text{ double it } 8 \text{ double it } 16$

$2 \text{ double it } 4 \text{ double it } 8$

$5 \text{ double it } 10 \text{ double it } 20$

$3 \text{ double it } 6 \text{ double it } 12$

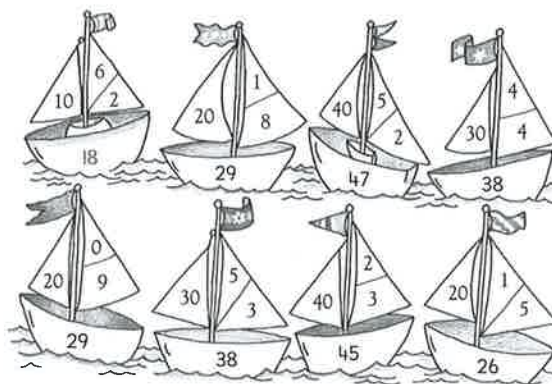
$6 \text{ double it } 12 \text{ double it } 24$

Guide children to see that doubles, doubles plus 1, and doubles minus 1 can be useful strategies for solving addition problems.



Adding up

Add the numbers on the sails. Write the totals on the boats.



Add the numbers. Write the totals.

$3 + 4 + 10 = 17$

$9 + 0 + 20 = 29$

$2 + 40 + 3 = 45$

$5 + 40 + 2 = 47$

$20 + 7 + 2 = 29$

$4 + 5 + 20 = 29$

$30 + 4 + 3 = 37$

$1 + 30 + 7 = 38$

$40 + 8 + 1 = 49$

$$\begin{array}{r} 30 \\ 1 \\ + 7 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 10 \\ 2 \\ + 5 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 20 \\ 2 \\ + 4 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 40 \\ 5 \\ + 0 \\ \hline 45 \end{array}$$

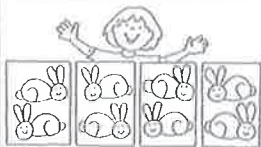
Help children to identify ways to make the addition problems simpler. Children can use what they know about addition facts and about adding 10s.

Count by 2s



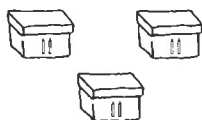
Draw the pictures. Count by 2s. Write the totals.

Sasha has 4 hutches. There are 2 rabbits in each hutch.



8 rabbits

Joel has 3 boxes. There are 2 pencils in each box.



6 pencils

Mrs. Reaves has 6 flower pots. There are 2 flowers in each pot.



12 flowers

Mr. Hastings has 5 fish. Each fish has 2 eyes.



10 eyes

Draw the pictures, then write the answers.

There are 6 birds. There are 2 birds in each tree. How many trees are there?



3 trees

There are 8 tarts. There are 2 tarts on each plate. How many plates are there?



4 plates

Children should by now be comfortable with this counting sequence. For the last two exercises, help them to find the number of groups of 2 that make up the greater number.



Addition

Add to find each sum.

$$\begin{array}{r} 2 \\ +13 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 4 \\ +10 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 18 \\ +11 \\ \hline 29 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 1 \\ +3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 5 \\ +1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 3 \\ +5 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 7 \\ +2 \\ \hline 9 \end{array}$$

$$\begin{array}{r} 1 \\ +5 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 10 \\ +9 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 6 \\ +11 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 13 \\ +2 \\ \hline 15 \end{array}$$

$$\begin{array}{r} 16 \\ +2 \\ \hline 18 \end{array}$$

$$\begin{array}{r} 10 \\ +4 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 14 \\ +5 \\ \hline 19 \end{array}$$

$$\begin{array}{r} 11 \\ +3 \\ \hline 14 \end{array}$$

$$\begin{array}{r} 12 \\ +1 \\ \hline 13 \end{array}$$

$$\begin{array}{r} 18 \\ +11 \\ \hline 29 \end{array}$$

$$\begin{array}{r} 16 \\ +20 \\ \hline 36 \end{array}$$

This page presents straightforward addition of two-digit numbers, with no regrouping. Make sure that children add in the correct order, that is, they should add the ones first and then add the tens.

Addition



Add to find each sum.

$$\begin{array}{r} 5 \\ +1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 14 \\ +24 \\ \hline 38 \end{array}$$

$$\begin{array}{r} 50 \\ +10 \\ \hline 60 \end{array}$$

Add to find each sum.

$$\begin{array}{r} 2 \\ +2 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 5 \\ +1 \\ \hline 6 \end{array}$$

$$\begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array}$$

$$\begin{array}{r} 1 \\ +3 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 6 \\ +2 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 1 \\ +1 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 10 \\ +10 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 50 \\ +40 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 16 \\ +33 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 29 \\ +20 \\ \hline 49 \end{array}$$

$$\begin{array}{r} 61 \\ +35 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 74 \\ +12 \\ \hline 86 \end{array}$$

Michael has 21 fish. His dad gives him 7 more fish. How many fish does Michael have?

28

$$\begin{array}{r} 21 \\ +7 \\ \hline 28 \end{array}$$

Sonia read 13 books one month. She read 6 books the next month. How many books did she read in all?

19

$$\begin{array}{r} 13 \\ +6 \\ \hline 19 \end{array}$$

This page also presents straightforward addition of some two-digit numbers, with no regrouping. Once again, make sure that children add the ones first and then the tens.



Addition and subtraction

Write the missing numbers.

$$? + 8 = 12$$

$$7 - ? = 1$$

$$4 + 8 = 12$$

$$7 - 6 = 1$$

Write the missing numbers.

$$15 - 5 = 10$$

$$3 + 3 = 6$$

$$8 - 6 = 2$$

$$9 + 2 = 11$$

$$8 - 8 = 0$$

$$9 + 5 = 14$$

$$7 + 3 = 10$$

$$6 - 4 = 2$$

$$17 - 10 = 7$$

$$5 - 4 = 1$$

$$2 + 5 = 7$$

$$1 + 3 = 4$$

$$14 - 7 = 7$$

$$8 + 1 = 9$$

$$3 + 9 = 12$$

$$8 + 6 = 14$$

$$3 - 1 = 2$$

$$12 - 6 = 6$$

$$18 - 9 = 9$$

$$5 + 6 = 11$$

$$1 - 1 = 0$$

$$11 - 7 = 4$$

$$4 + 9 = 13$$

$$3 + 5 = 8$$

$$2 + 3 = 5$$

$$16 - 6 = 10$$

$$8 + 10 = 18$$

$$5 + 7 = 12$$

$$4 + 4 = 8$$

$$9 - 3 = 6$$

Children should use their knowledge of fact families to solve the problems on this page. If they need help, remind them that fact families are made up of two addition facts and two subtraction facts.

Real-life problems



Look at the picture. Answer the questions.



What time is it? 4:30

Today is Friday. What day was it yesterday? Thursday

How many cupcakes can each person have? two

If half of the apples were eaten, how many would be left? three

If each person had 2 drinks, how many drinks would there be altogether? eight

How many more sandwiches are there than apples? four

If 13 candies were eaten, how many would be left? seven

Each package contains 2 presents. How many presents are there altogether? six

What shape are the sandwiches? triangular

Is there an odd or an even number of chairs? even

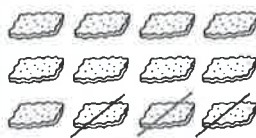
Children have to decide what each question is asking for and then find a way of arriving at each answer. For example, they recognize that the fifth question can be answered by counting by 2s.



Real-life problems

Complete the pictures, and then write the answers.

There were 12 biscuits. James ate 3. How many were left?



9

Share 9 marbles equally among 3 people. How many marbles will each have?



3

Susie has ten fish. She is given 11 more for her birthday. How many fish does she have altogether?



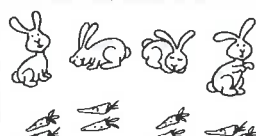
21

Joe had 5 boxes. He had 3 pencils in each box. How many pencils did he have altogether?



15

If you share 8 carrots equally among 4 rabbits, how many carrots will each have?



2

Mom had 16 cups, but she broke 9 of them. How many cups does she have left?



7

Children have to decide which operation to use and what kind of answer each question calls for. Call their attention to the words *altogether* and *left*. Point out that these words are clues whether to add or subtract.

Addition



Find each sum.

$$\begin{array}{r} 40 \\ +30 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 80 \\ +80 \\ \hline 160 \end{array}$$

$$\begin{array}{r} 20 \\ +50 \\ \hline 70 \end{array}$$

$$\begin{array}{r} 20 \\ +30 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 10 \\ +10 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 40 \\ +50 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 40 \\ +40 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 50 \\ +30 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 10 \\ +80 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 50 \\ +40 \\ \hline 90 \end{array}$$

$$\begin{array}{r} 20 \\ +10 \\ \hline 30 \end{array}$$

$$\begin{array}{r} 30 \\ +20 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 10 \\ +70 \\ \hline 80 \end{array}$$

$$\begin{array}{r} 20 \\ +40 \\ \hline 60 \end{array}$$

$$\begin{array}{r} 10 \\ +40 \\ \hline 50 \end{array}$$

$$\begin{array}{r} 10 \\ +30 \\ \hline 40 \end{array}$$

Find each sum.

$$70 + 20 = 90$$

$$80 + 10 = 90$$

$$10 + 40 = 50$$

$$60 + 10 = 70$$

$$30 + 30 = 60$$

$$50 + 10 = 60$$

$$20 + 70 = 90$$

$$70 + 10 = 80$$

$$10 + 20 = 30$$

$$20 + 60 = 80$$

$$40 + 40 = 80$$

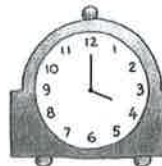
$$10 + 80 = 90$$

Point out to children that even though they are adding two-digit numbers, they can write a zero in the ones place in each answer, because they are adding 10s.



Clocks and watches

Write the times.



4 o'clock



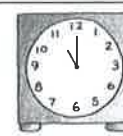
half past 10



9 o'clock



half past 5



11 o'clock



half past 2



half past 1



12 o'clock



half past 7



10 o'clock



half past 3

Encourage children to express times both as digital numbers and on analog clock faces.



Read the clues and solve the puzzle.

I am a number between 20 and 30. If you count by fives, you will say my name. Who am I? **25**

Read the clues and solve each puzzle.

I am an even number. I am between 6 and 9. Who am I? **8**

$7 + 7$ is less than I am. $7 + 9$ is greater than I am. Who am I? **15**

I am a number less than 10. If you add me to myself, you will find a number greater than 16. Who am I? **9**

$16 - 10$ is less than I am. $16 - 8$ is greater than I am. Who am I? **7**

I am a number between 7 and 12. If you count by threes, you will say my name. Who am I? **9**

I am an odd number. I am between 11 and 14. Who am I? **13**

If you subtract me from 14, you will find a number greater than 11. I am an odd number. Who am I? **1**

If you add me to 50, you will find a number less than 70. If you count by tens you will say my name. Who am I? **10**

If you add me to 1, you will find an odd number. I am less than 2. Who am I? **0**

Encourage children to use their knowledge of counting sequences, and addition and subtraction facts to solve the puzzles. If necessary, read the clues together.



Water animals

	Has 4 legs	Eats insects	Has a furry coat	Lays eggs
Frog	yes	yes	no	yes
Newt	yes	yes	no	yes
Otter	yes	no	yes	no

Use the table to answer the questions.

What does the _____ eat? _____ Who lays eggs? _____ frog, newt
frog eat?

Who has a furry coat? _____ Does the otter _____ no
eat insects?

Who has a furry coat and does not lay eggs? _____ otter

School friends

	Age	Hobby	Pet	Favourite colour
Dean	7	Computers	Rat	Black
Joe	6	Reading	Rabbit	Purple
Taif	7	Judo	Cat	Orange
Maddie	8	Computers	Parrot	Green

Use the table to answer the questions.

Whose favourite colour is black? _____ Dean's _____ Who is the oldest? _____ Maddie

Who has judo for a hobby? _____ Taif _____ What kind of pet does Joe have? _____ rabbit

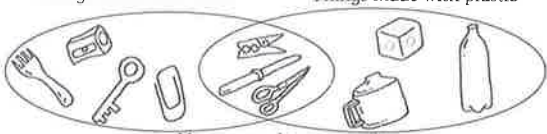
Who likes computers and has a parrot? _____ Maddie _____ Who is seven and does not have a rat? _____ Taif

Guide children to see that the first column in the table on top lists the animals and the next four columns describe them. Help them to see that the second table is the same but describes friends.



Things made with metal

Things made with plastic

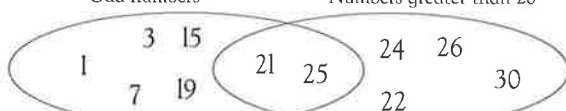


How many things are ...?

made with plastic? **6** made with metal? **7**
made with metal and plastic? **3** not made with plastic? **4**

Odd numbers

Numbers greater than 20



How many numbers are ...?

odd? **7** greater than 20? **6**
odd and greater than 20? **2** not odd? **4**

White things

Green things



How many things are ...?

green? **5** white? **6**
green and white? **2** not green? **4**

Make sure children understand that the items in the part of the diagram where the two ovals intersect are a part of both sets of items. They must be included when counting either of the main sets.



Which unit would you use to measure the length of each item? Circle the answer.

	centimetres	kilometres	kilograms	litres
	kilometres	grams	kilograms	metres

Which unit would you use to measure the weight of each item? Circle the answer.

	centimetres	kilometres	kilograms	grams
	kilometres	kilograms	litres	grams

Which unit would you use to measure how much liquid each container holds? Circle the answer.

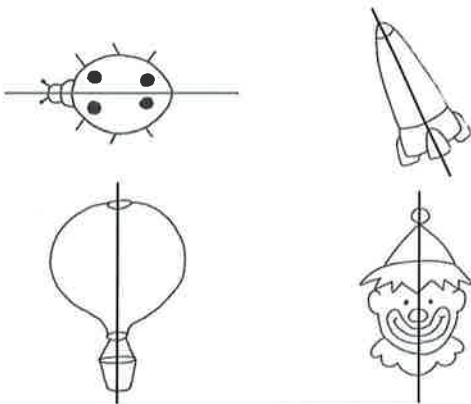
	tonnes	centimetres	millilitres	kilograms
	kilometres	centimetres	grams	litres

Discuss with children the relative magnitudes of various units of measure. Lead them to see that smaller units of measure should be used for smaller items, and larger units for larger items.

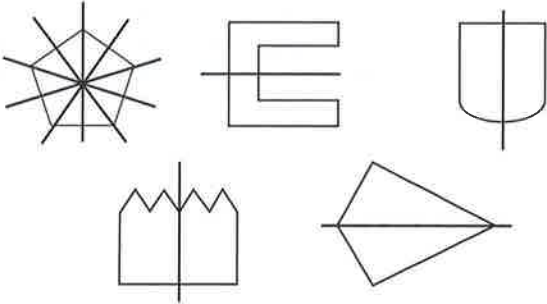
Symmetry



Draw a line of symmetry on each picture.



Draw lines of symmetry on these shapes.

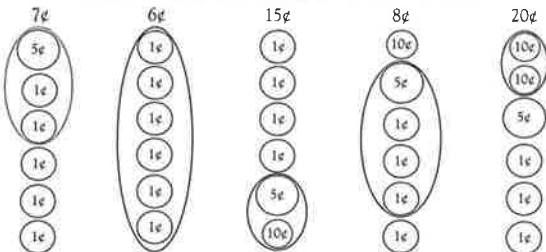


Explain to children that a line of symmetry separates something into two halves that are mirror images of each other. If children have difficulty, suggest that they look at the items from different angles.

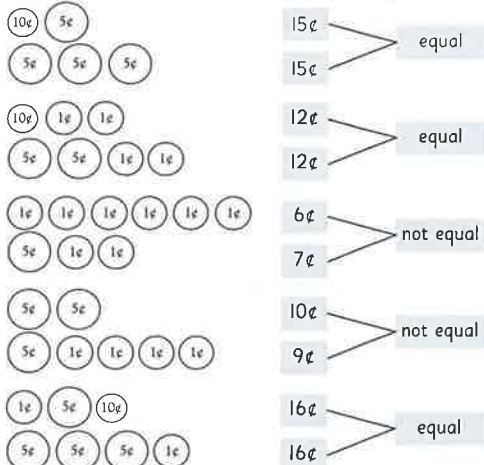
Equal value



Circle the coins that add up to the amount shown.



Write the amounts. Tell if they are equal.



Encourage children to begin with the largest coin possible when they are deciding which coins to use to make the desired amount.



2-dimensional shapes

Write the name of the shape. Count the corners and sides.

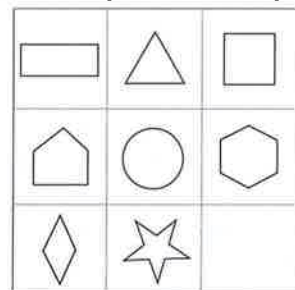
Name <u>hexagon</u> side → corner →		Sides <u>6</u> Corners <u>6</u>
Name <u>triangle</u> Sides <u>3</u> Corners <u>3</u>		Name <u>square</u> Sides <u>4</u> Corners <u>4</u>
Name <u>rectangle</u> Sides <u>4</u> Corners <u>4</u>		Name <u>circle</u> Sides <u>0</u> Corners <u>0</u>
Name <u>triangle</u> Sides <u>3</u> Corners <u>3</u>		Name <u>pentagon</u> Sides <u>5</u> Corners <u>5</u>
Name <u>hexagon</u> Sides <u>6</u> Corners <u>6</u>		Name <u>rectangle</u> Sides <u>4</u> Corners <u>4</u>

The second figure, although partially rotated, is still a square, not a diamond. Children should be able to identify the shapes by counting the number of sides and corners of each shape.



Shapes and places

Look at the shapes and answer the questions.



circle
hexagon
diamond
pentagon
rectangle
square
star
triangle

Which shape is ...

underneath the circle? star
to the left of the triangle? rectangle
above the hexagon? square
below the pentagon? diamond
between the rectangle and the diamond? pentagon
diagonally above the empty space? circle
beside the diamond? star
on top of the diamond? pentagon
between the triangle and the star? circle
on the right-hand end of the top row? square
in the centre of the grid? circle
in the top left-hand corner? rectangle

This page gives children practice with words that specify position or location. Help them with the questions, if necessary.



Which numbers are the snakes hiding?

1	2	3	4	5	6	7	8	9
11	12	13	14	15	16	17	18	19
21	22	23	24	25	26	27	28	29
31	32	33	34	35	36	37	38	39
41	42	43	44	45	46	47	48	49
51	52	53	54	55	56	57	58	59
61	62	63	64	65	66	67	68	69
71	72	73	74	75	76	77	78	79
81	82	83	84	85	86	87	88	89
91	92	93	94	95	96	97	98	99

6 16 17 10 20 29 30 37 75 85 86 87 97 42 43 44 99 100 14 25 51 46 56 83 71 72 66 67 68 91 92 94

Ask children to explain how they can tell which numbers are hidden. Encourage them to use their knowledge of counting sequences, 5s and 10s and to look at both columns and rows.



Finish each row.

Count by 1s. 24 25 26 27 28 29

Count by 10s. 31 41 51 61 71 81

Finish each row. Count by 1s.

17	18	19	20	21	22	23	24
36	37	38	39	40	41	42	43
69	70	71	72	73	74	75	76
45	46	47	48	49	50	51	52
85	86	87	88	89	90	91	92

Finish each row. Count by 10s.

10	20	30	40	50	60	70	80
12	22	32	42	52	62	72	82
15	25	35	45	55	65	75	85
16	26	36	46	56	66	76	86
17	27	37	47	57	67	77	87
19	29	39	49	59	69	79	89

Finish each row. Count by 1s and 10s.

8	9	10	11	12	13	14	15
18	28	38	48	58	68	78	88
4	5	6	7	8	9	10	11
14	24	34	44	54	64	74	84
0	1	2	3	4	5	6	7

Children should realize that they need only increase the digit in the appropriate place value by 1. If they have difficulty with numbers such as 20 or 45, show them that the appropriate digit increases by 1, just as in counting by 1s.



Count by 2s. 12 14 16 18 20 22

Count by 2s. 31 33 35 37 39 41

Finish each row. Count by 2s.

17	19	21	23	25	27	29	31
36	38	40	42	44	46	48	50
72	74	76	78	80	82	84	86
43	45	47	49	51	53	55	57
14	16	18	19	21	22	23	25
39	41	43	45	47	49	51	53

Finish each row. Count by 2s.

20	22	24	26	28	30	32	34
75	77	79	81	83	85	86	89
44	46	48	50	52	54	56	58
69	71	73	75	77	79	81	83
31	33	35	37	39	41	43	45
88	90	92	94	96	98	100	102

Finish each row. Count by 2s.

20	22	24	26	28	30	32	34
47	49	51	53	55	57	59	61
77	79	81	83	85	87	89	91
46	48	50	52	54	56	58	60
87	89	91	93	95	97	99	101
46	48	50	52	54	56	58	60

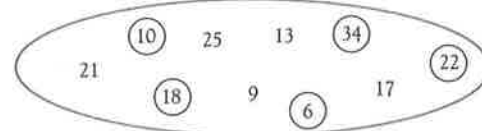
Some children will need help crossing a tens or hundreds "border." Show them counting by 2s by counting by 1 two times.



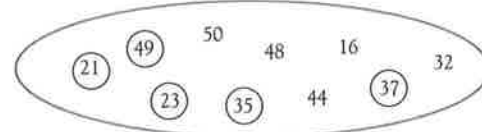
Numbers ending in 0 2 4 6 8 are called even numbers.

Numbers ending in 1 3 5 7 9 are called odd numbers.

Circle the numbers that are even.



Circle the numbers that are odd.



Write the odd numbers between 30 and 50.

31 33 35 37 39 41 43 45 47 49

Write the even numbers between 21 and 41.

22 24 26 28 30 32 34 36 38 40

Children should realize that even numbers are all multiples of 2 and that all even numbers can be divided by 2 and give a whole-number quotient. Odd numbers cannot be divided by 2. If they are unsure, let them use counters and try to share them equally.

More and less



Which number is 1 more than 49? 50
Which number is 10 less than 64? 54

Write the number that is 1 more than each of these.

35 36 78 79 69 70 53 54 9 10 54 55
41 42 24 25 67 68 40 41 36 37 73 74

Write the number that is 1 less than each of these.

52 51 18 17 20 19 76 75 37 36 50 49
40 39 54 53 23 22 100 99 31 30 83 82

Write the number that is 10 more than each of these.

46 56 21 31 86 96 53 63 16 26
18 28 29 39 39 49 38 48 90 100
60 70 81 91 59 69 23 33 80 90

Write the number that is 10 less than each of these.

56 46 75 65 86 76 18 8 23 13
68 58 45 35 50 40 40 30 80 70
60 50 90 80 60 50 70 60 10 0

Write the number that is 10 more than each of these.

65 75 76 86
90 100 60 70

Write the number that is 10 less than each of these.

50 40 10 0
80 70 75 65

Children may be uncertain when addition or subtraction takes them over a tens "border," for example, where the child is asked to write 10 more than 90.



Fact families

Finish the fact family for each group of numbers.

5 9 4
5 + 4 = 9
4 + 5 = 9
9 - 4 = 5
9 - 5 = 4

Finish the fact family for each group of numbers.

4 7 3
4 + 3 = 7
3 + 4 = 7
7 - 3 = 4
7 - 4 = 3

3 8 5
3 + 5 = 8
5 + 3 = 8
8 - 5 = 3
8 - 3 = 5

6 7 1
6 + 1 = 7
1 + 6 = 7
7 - 1 = 6
7 - 6 = 1

2 6 4
2 + 4 = 6
4 + 2 = 6
6 - 4 = 2
6 - 2 = 4

2 9 7
2 + 7 = 9
7 + 2 = 9
9 - 2 = 7
9 - 7 = 2

2 3 5
2 + 3 = 5
3 + 2 = 5
5 - 2 = 3
5 - 3 = 2

1 3 4
1 + 3 = 4
3 + 1 = 4
4 - 1 = 3
4 - 3 = 1

10 8 2
2 + 8 = 10
8 + 2 = 10
10 - 2 = 8
10 - 8 = 2

10 5
5 + 5 = 10
10 - 5 = 5

4 8
4 + 4 = 8
8 - 4 = 4

3 6
3 + 3 = 6
6 - 3 = 3

4 2
2 + 2 = 4
4 - 2 = 2

Write the fact family for each group of numbers.

10 3 7
7 + 3 = 10
3 + 7 = 10
10 - 3 = 7
10 - 7 = 3

3 9 6
3 + 6 = 9
6 + 3 = 9
9 - 3 = 6
9 - 6 = 3

6 8 2
6 + 2 = 8
2 + 6 = 8
8 - 2 = 6
8 - 6 = 2

5 7 2
5 + 2 = 7
2 + 5 = 7
7 - 2 = 5
7 - 5 = 2

Children should understand that subtraction "undoes" addition. You may want to use counters to show the addition fact families.

Fractions



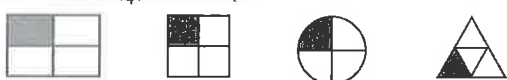
Colour one-third ($\frac{1}{3}$) of each shape.



Colour one-half ($\frac{1}{2}$) of each shape.



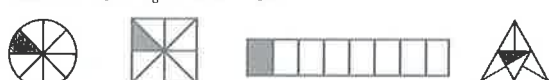
Colour one-fourth ($\frac{1}{4}$) of each shape.



Colour one-third ($\frac{1}{3}$) of each shape.



Colour one-eighth ($\frac{1}{8}$) of each shape.



Colour one-tenth ($\frac{1}{10}$) of each shape.



Sections other than those shown above may be coloured, but children must only colour one section in each shape. It is important for them to realize that the bottom number represents how many parts the whole has been divided into.



Adding

Write the answers between the lines.

13 11 14
+16 +5 +5
29 16 19

Write the answers between the lines.

4 3 1 4
+9 +6 +7 +5
13 9 8 9

3 2 4 8
+7 +5 +7 +8
10 7 11 16

6 7 13 31
+10 +11 +12 +9
16 18 25 40

Write the answers between the lines.

2 3 2 4
+2 +3 +6 +4
8 9 10 12

12¢ 12¢ 8¢ 3¢
6¢ 7¢ 1¢ 9¢
+10¢ +10¢ +6¢ +6¢
28¢ 29¢ 15¢ 18¢

20¢ 15¢ 8¢ 10¢
7¢ 10¢ 10¢ 8¢
+10¢ +2¢ +4¢ +10¢
37¢ 27¢ 22¢ 28¢

For a few of these exercises, make sure that children do not neglect to regroup. For the final two rows of the second section, children should add all of the ones column first.

Estimating length



Circle the longest string.



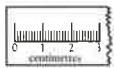
Circle the shortest string.



Circle the longest string.



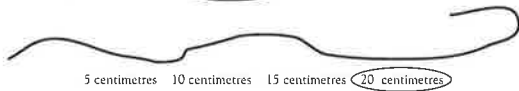
Look at the ruler. Circle the closest measure.



1 centimetres 2 centimetres 4 centimetres 8 centimetres



2 centimetres 4 centimetres 11 centimetres 30 centimetres



5 centimetres 10 centimetres 15 centimetres 20 centimetres

Children should be able to compare the lengths by sight. For the last section of the page, allow them to use a benchmark (such as the length of one joint of a finger) to estimate length.



Subtracting

Write the answers between the lines.

$$\begin{array}{r} 28 \\ -16 \\ \hline 12 \end{array}$$

$$\begin{array}{r} 31 \\ -14 \\ \hline 17 \end{array}$$

$$\begin{array}{r} 40 \\ -17 \\ \hline 23 \end{array}$$

Write the answers between the lines.

$$\begin{array}{r} 7 \\ -4 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 8 \\ -5 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 9 \\ -7 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 9 \\ -8 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 8 \\ -4 \\ \hline 4 \end{array}$$

$$\begin{array}{r} 9 \\ -6 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 3 \\ -0 \\ \hline 3 \end{array}$$

$$\begin{array}{r} 7 \\ -7 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 8 \\ -8 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 7 \\ -6 \\ \hline 1 \end{array}$$

$$\begin{array}{r} 9 \\ -4 \\ \hline 5 \end{array}$$

$$\begin{array}{r} 36 \\ -2 \\ \hline 34 \end{array}$$

$$\begin{array}{r} 28\text{¢} \\ -16\text{¢} \\ \hline 12\text{¢} \end{array}$$

$$\begin{array}{r} 46\text{¢} \\ -35\text{¢} \\ \hline 12\text{¢} \end{array}$$

$$\begin{array}{r} 39\text{¢} \\ -26\text{¢} \\ \hline 13\text{¢} \end{array}$$

$$\begin{array}{r} 48\text{¢} \\ -37\text{¢} \\ \hline 11\text{¢} \end{array}$$

$$\begin{array}{r} 56\text{¢} \\ -35\text{¢} \\ \hline 21\text{¢} \end{array}$$

$$\begin{array}{r} 39\text{¢} \\ -28\text{¢} \\ \hline 11\text{¢} \end{array}$$

$$\begin{array}{r} 50\text{¢} \\ -47\text{¢} \\ \hline 3\text{¢} \end{array}$$

$$\begin{array}{r} 48\text{¢} \\ -38\text{¢} \\ \hline 10\text{¢} \end{array}$$

$$\begin{array}{r} 40\text{¢} \\ -8\text{¢} \\ \hline 32\text{¢} \end{array}$$

$$\begin{array}{r} 50\text{¢} \\ -26\text{¢} \\ \hline 24\text{¢} \end{array}$$

$$\begin{array}{r} 41\text{¢} \\ -14\text{¢} \\ \hline 27\text{¢} \end{array}$$

$$\begin{array}{r} 44\text{¢} \\ -36\text{¢} \\ \hline 8\text{¢} \end{array}$$

In some of these exercises, children may incorrectly subtract the larger digit from the smaller one, when they should be subtracting the smaller digit from the larger one. In such cases, point out that children should regroup.

Simple tally charts and bar graphs



Look at the tally chart and then answer the question.

blue	
red	

How many votes did blue receive? 18

Look at the tally chart and then answer the questions.

Favourite ice cream flavours	
vanilla	
chocolate	
strawberry	

Which flavour had the most votes?

chocolate

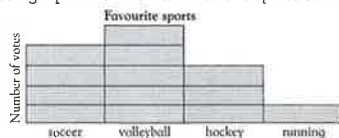
Which flavour had 11 votes?

vanilla

What was the difference in votes between the most popular flavour and strawberry?

6

Look at the bar graph and then answer the questions.



Which sport did four children vote for?

soccer

How many votes did volleyball receive?

5

Which was the least popular sport?

running

How many children voted altogether?

13

How many more voted for soccer than for hockey?

1

Children usually accept the concept of tally marks very quickly. They can count on by 5s for completed tallies.



Addition properties

Circle the number that makes the sentence true.

$$__ + 7 = 7 \quad 43 + 21 = 21 + __$$

$$1 \quad (0) \quad 14$$

$$22 \quad 64 \quad (43)$$

Circle the number that makes the sentence true.

$$__ + 3 = 3$$

$$15 + __ = 15$$

$$(0) \quad 3 \quad 6$$

$$30 \quad (0) \quad 5$$

$$__ + 23 = 23 + 16$$

$$25 + 41 = 41 + __$$

$$(16) \quad 23 \quad 46$$

$$16 \quad 66 \quad (25)$$

$$__ + 45 = 45$$

$$50 + 0 = 0 + __$$

$$45 \quad (0) \quad 1$$

$$(50) \quad 0 \quad 500$$

Complete the number sentences.

$$0 + 27 = 27$$

$$40 + 0 = 40$$

$$13 + 28 = 28 + 13$$

$$25 + 3 = 3 + 25$$

$$47 + 0 = 47$$

$$16 + 43 = 43 + 16$$

$$2 + 28 = 28 + 2$$

$$0 + 12 = 12$$

$$28 + 20 = 20 + 28$$

$$35 + 0 = 35$$

$$10 + 0 = 10$$

$$20 + 8 = 8 + 20$$

$$47 + 0 = 47$$

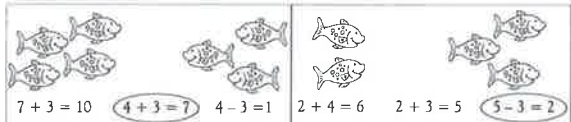
$$8 + 0 = 8$$

$$34 + 11 = 11 + 34$$

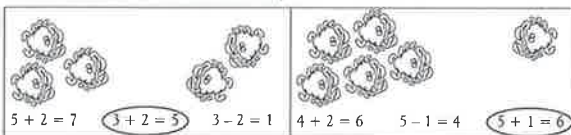
This page tests children's understanding of the zero property and the commutative property of addition. Make sure that they understand that the order of addends does not affect the answer.



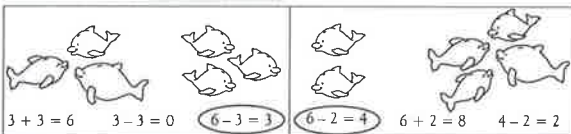
Circle the correct number sentence.



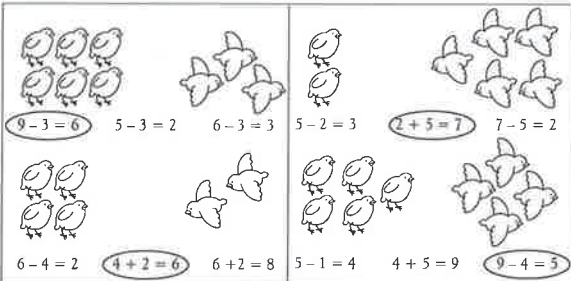
Circle the correct addition sentence.



Circle the correct subtraction sentence.



Circle the correct number sentence.



For the final section, make sure that children understand that animals approaching each other represent addition and animals moving away from each other represent subtraction.



Write the name of each shape.



sphere



cube

Write the name of each shape. Use the words in the word box.

Word Box
sphere prism cone cube cylinder pyramid



prism



sphere



cube



pyramid



cylinder



cone



cylinder



cone



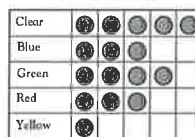
prism

If children have difficulty, help them identify each shape and learn its name.



Look at this picture graph. Then answer the questions.

Mina's marbles



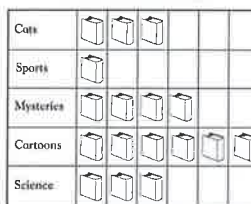
How many blue marbles does Mina have? 3

Does Mina have more green marbles or yellow marbles? green

How many marbles does Mina have in all? 16

Look at this picture graph. Then answer the questions.

Books on Pablo's shelf



How many science books does Pablo have? 3

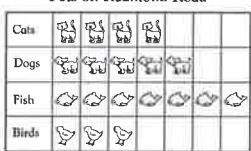
Does he have more books about cats than mysteries? no

How many more cartoon books does he have than mysteries? 2

How many books about cats and science does he have? 6

Look at this picture graph. Then answer the questions.

Pets on Redmond Road



On Redmond Road, are there more cats or dogs? dogs

How many more fish are there than dogs? 2 more

How many cats and dogs are there? 9

How many pets are there in all? 19

Children need to count the items for each category, and then add, subtract, and compare data.



Write the missing addend.



$$6 + 7 = 13$$



Write the missing addend.



$$3 + 6 = 9$$



$$5 + 7 = 12$$



$$9 + 2 = 11$$



$$8 + 8 = 16$$



Write the missing addend.

$$3 + 4 = 7$$

$$5 + 9 = 14$$

$$9 + 3 = 12$$

$$8 + 2 = 10$$

$$7 + 6 = 12$$

$$7 + 8 = 15$$

$$7 + 5 = 12$$

$$9 + 8 = 17$$

$$7 + 6 = 13$$

$$8 + 6 = 14$$

$$10 + 3 = 13$$

$$4 + 9 = 13$$

$$4 + 3 = 7$$

$$3 + 6 = 9$$

$$2 + 9 = 11$$

$$8 + 5 = 13$$

$$6 + 2 = 8$$

$$5 + 4 = 9$$

$$7 + 1 = 8$$

$$8 + 4 = 12$$

$$8 + 1 = 9$$

$$6 + 7 = 13$$

$$8 + 8 = 16$$

$$5 + 6 = 11$$

$$4 + 7 = 11$$

$$10 + 5 = 15$$

$$8 + 3 = 11$$

$$4 + 6 = 10$$

$$7 + 7 = 14$$

$$8 + 7 = 15$$

$$9 + 5 = 14$$

$$6 + 9 = 15$$

$$9 + 7 = 16$$

$$9 + 9 = 18$$

$$3 + 7 = 10$$

$$5 + 4 = 9$$

Children can use any method they wish to answer these problems—using related subtraction facts, counting, or number sense. They should be able to complete the page using mental math.

Reading tables



Read the table. Then answer the questions.

How old is Paul? **7**

Ages of cousins

NAME	AGE
Kinta	8
Paul	7
Clara	9
Meg	7
Lec	6

Who is older than Kinta? **Clara**

Who is the same age as Meg? **Paul**

Who is the youngest? **Lee**

Read the table. Then answer the questions.

Favourite juice

Apple	6
Cranberry	2
Grape	3
Cherry	1
Orange	9

How many people chose orange juice? **9**

Which juice did 2 people choose? **Cranberry**

How many more people like orange juice than apple juice? **3 more**

Did more people choose grape juice or cranberry juice? **Grape juice**

Read the table. Then answer the questions.

Mass of dogs

NAME	Bear	Mike	Perry	Spike	Marco
KILOGRAMS	30	6	9	5	3

Which dog has a mass of more than 25 kilograms? **Bear**

Which dog has a mass of less than 4 kilograms? **Marco**

How much more mass does Perry have than Mike? **3 kilograms**

How much less mass does Spike have than Mike? **1 kilogram**

If children have difficulty reading the information in the last table, help them with one question, reading across the appropriate row and down the appropriate column, showing them the intersection of the two.



Adding

Write the answer in the box.

$$\begin{array}{r} 34 \\ + 13 \\ \hline 47 \end{array} \quad \begin{array}{r} 26 \\ + 15 \\ \hline 41 \end{array} \quad \begin{array}{r} 73 \\ + 27 \\ \hline 100 \end{array}$$

Write the answer in the box.

$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array}$	$\begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array}$
$\begin{array}{r} 7 \\ + 0 \\ \hline 7 \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array}$	$\begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array}$
$\begin{array}{r} 9 \\ + 0 \\ \hline 9 \end{array}$	$\begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array}$	$\begin{array}{r} 42 \\ + 7 \\ \hline 49 \end{array}$	$\begin{array}{r} 6 \\ + 4 \\ \hline 10 \end{array}$
$\begin{array}{r} 36 \\ + 3 \\ \hline 39 \end{array}$	$\begin{array}{r} 12 \\ + 6 \\ \hline 18 \end{array}$	$\begin{array}{r} 37 \\ + 1 \\ \hline 38 \end{array}$	$\begin{array}{r} 34 \\ + 3 \\ \hline 37 \end{array}$
$\begin{array}{r} 48 \\ + 2 \\ \hline 50 \end{array}$	$\begin{array}{r} 64 \\ + 4 \\ \hline 68 \end{array}$	$\begin{array}{r} 36 \\ + 13 \\ \hline 49 \end{array}$	$\begin{array}{r} 33 \\ + 15 \\ \hline 48 \end{array}$
$\begin{array}{r} 26 \\ + 12 \\ \hline 38 \end{array}$	$\begin{array}{r} 37 \\ + 12 \\ \hline 49 \end{array}$	$\begin{array}{r} 48 \\ + 11 \\ \hline 59 \end{array}$	$\begin{array}{r} 56 \\ + 12 \\ \hline 68 \end{array}$
$\begin{array}{r} 2 \\ + 16 \\ \hline 18 \end{array}$	$\begin{array}{r} 22 \\ + 26 \\ \hline 48 \end{array}$	$\begin{array}{r} 3 \\ + 27 \\ \hline 30 \end{array}$	$\begin{array}{r} 37 \\ + 23 \\ \hline 60 \end{array}$
$\begin{array}{r} 9 \\ + 24 \\ \hline 33 \end{array}$	$\begin{array}{r} 17 \\ + 27 \\ \hline 44 \end{array}$	$\begin{array}{r} 28 \\ + 17 \\ \hline 45 \end{array}$	$\begin{array}{r} 19 \\ + 26 \\ \hline 45 \end{array}$
$\begin{array}{r} 26 \\ + 18 \\ \hline 44 \end{array}$	$\begin{array}{r} 36 \\ + 16 \\ \hline 52 \end{array}$	$\begin{array}{r} 16 \\ + 14 \\ \hline 30 \end{array}$	$\begin{array}{r} 14 \\ + 26 \\ \hline 40 \end{array}$

Most of the sums require regrouping. Make sure that children do not neglect to add 10 to the tens column when they regroup.

Reading a calendar



Look at this calendar. Then answer the questions.

September

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

What day of the week is the first day of September on this calendar? **Monday**

What date is the last Tuesday in September? **September 30**

Look at this calendar. Then answer the questions.

July

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

How many days are in the month of July? **31 days**

What day of the week is the last day of July on this calendar? **Saturday**

A camp starts on July 5 and ends on July 9. How many camp days are there? **5 days**

The campers go swimming on Tuesday and Thursday. On which dates will they swim? **July 6 and July 8**

Look at this calendar. Then answer the questions.

November

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

What date is the first Sunday of November? **November 2**

What day of the week is November 14? **Friday**

How many Saturdays are shown in November? **5**

Jenna's birthday is November 23. What day of the week is it? **Sunday**

If children have difficulties, make sure they understand the abbreviations used in the calendars, and are able to read the calendars accurately.



Subtracting

Write the answer in the box.

$$\begin{array}{r} 63 \\ - 48 \\ \hline 25 \end{array} \quad \begin{array}{r} 45 \\ - 26 \\ \hline 19 \end{array} \quad \begin{array}{r} 72 \\ - 36 \\ \hline 36 \end{array}$$

Write the answer in the box.

$\begin{array}{r} 27 \\ - 6 \\ \hline 21 \end{array}$	$\begin{array}{r} 16 \\ - 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 25 \\ - 2 \\ \hline 23 \end{array}$	$\begin{array}{r} 38 \\ - 5 \\ \hline 33 \end{array}$
$\begin{array}{r} 39 \\ - 7 \\ \hline 32 \end{array}$	$\begin{array}{r} 28 \\ - 6 \\ \hline 22 \end{array}$	$\begin{array}{r} 36 \\ - 4 \\ \hline 32 \end{array}$	$\begin{array}{r} 19 \\ - 7 \\ \hline 12 \end{array}$
$\begin{array}{r} 26 \\ - 6 \\ \hline 20 \end{array}$	$\begin{array}{r} 43 \\ - 3 \\ \hline 40 \end{array}$	$\begin{array}{r} 37 \\ - 17 \\ \hline 20 \end{array}$	$\begin{array}{r} 18 \\ - 17 \\ \hline 1 \end{array}$

Write the answer in the box.

$\begin{array}{r} 48 \text{ cm} \\ - 18 \text{ cm} \\ \hline 30 \text{ cm} \end{array}$	$\begin{array}{r} 49 \text{ cm} \\ - 36 \text{ cm} \\ \hline 13 \text{ cm} \end{array}$	$\begin{array}{r} 47 \text{ cm} \\ - 27 \text{ cm} \\ \hline 20 \text{ cm} \end{array}$	$\begin{array}{r} 45 \text{ cm} \\ - 44 \text{ cm} \\ \hline 1 \text{ cm} \end{array}$
$\begin{array}{r} 49 \text{ cm} \\ - 47 \text{ cm} \\ \hline 2 \text{ cm} \end{array}$	$\begin{array}{r} 38 \text{ cm} \\ - 26 \text{ cm} \\ \hline 12 \text{ cm} \end{array}$	$\begin{array}{r} 39 \text{ cm} \\ - 4 \text{ cm} \\ \hline 35 \text{ cm} \end{array}$	$\begin{array}{r} 47 \text{ cm} \\ - 47 \text{ cm} \\ \hline 0 \text{ cm} \end{array}$

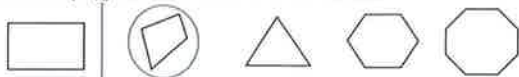
Write the answer in the box.

$\begin{array}{r} 43\text{p} \\ - 17\text{p} \\ \hline 26\text{p} \end{array}$	$\begin{array}{r} 41\text{p} \\ - 24\text{p} \\ \hline 17\text{p} \end{array}$	$\begin{array}{r} 43\text{p} \\ - 36\text{p} \\ \hline 7\text{p} \end{array}$	$\begin{array}{r} 51\text{p} \\ - 46\text{p} \\ \hline 5\text{p} \end{array}$
$\begin{array}{r} 50\text{p} \\ - 44\text{p} \\ \hline 6\text{p} \end{array}$	$\begin{array}{r} 51\text{p} \\ - 37\text{p} \\ \hline 14\text{p} \end{array}$	$\begin{array}{r} 53\text{p} \\ - 46\text{p} \\ \hline 7\text{p} \end{array}$	$\begin{array}{r} 54\text{p} \\ - 44\text{p} \\ \hline 10\text{p} \end{array}$
$\begin{array}{r} 50 \text{ cm} \\ - 34 \text{ cm} \\ \hline 16 \text{ cm} \end{array}$	$\begin{array}{r} 50 \text{ cm} \\ - 47 \text{ cm} \\ \hline 3 \text{ cm} \end{array}$	$\begin{array}{r} 36 \text{ cm} \\ - 18 \text{ cm} \\ \hline 18 \text{ cm} \end{array}$	$\begin{array}{r} 47 \text{ cm} \\ - 35 \text{ cm} \\ \hline 12 \text{ cm} \end{array}$

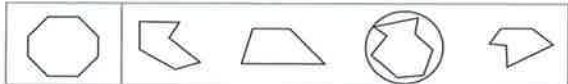
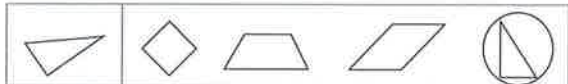
Most of the subtraction exercises require regrouping. Make sure children remember to regroup correctly.



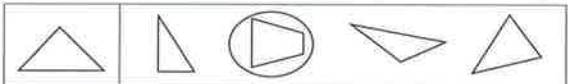
Circle the polygon that has the same number of sides.



Circle the polygon that has the same number of sides.



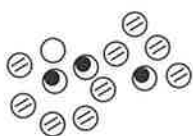
Circle the polygon that has a different number of sides.



Make sure that children understand that they are not looking for identical shapes, but figures with the given number of sides.



Look at the marbles. Then answer the questions.



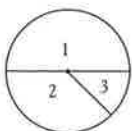
Which kind of marble would you be least likely to pick without looking?



Which kind of marble would you be most likely to pick without looking?



Look at the spinner. Then answer the questions.



Is the spinner more likely to land on 1 or 2? **1**

Is the spinner more likely to land on 2 or 3? **2**

Which number is the spinner most likely to land on? **1**

Which number is the spinner least likely to land on? **3**

Look at the tally chart. Then answer the questions.

Imagine that each time you shake the bag, one coin falls out.

Tally of coins in the bag

COINS	TALLIES
Pennies	
Dimes	
Nickels	
Quarters	

Is a penny or a dime more likely to fall out? **penny**

Is a quarter or a nickel more likely to fall out? **nickel**

Which coin is most likely to fall out? **nickel**

Which coin is least likely to fall out? **dime**

Children should realize that the more of a particular item there is in a set, the more likely it is to be picked.



Read the clues to find the secret number.

1, 2, 3, 4, 5

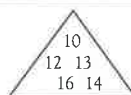
3, 5, 7

It is in both the rectangle and the circle.

It is greater than 3.

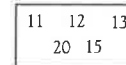
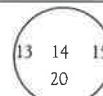
What number is it? **5**

Read the clues to find the secret number.



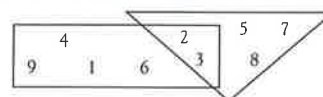
It is not in the square.
It is an even number.
It is less than 12.

What number is it? **10**



It is in the rectangle and the circle.
It is greater than 13 and less than 20.
It is an odd number.

What number is it? **15**



It is not an even number.
It is in the triangle.
It is in the rectangle.

What number is it? **3**

If children have difficulties, "walk" them through the example. The final question is a Venn diagram showing which numbers are in both figures. You may want to ask children which numbers are in both the triangle and the rectangle.



Write the name of each shape.



Sphere



Cube

Write the name of each shape. Use the names in the Word Box.

Word Box
Sphere
Cube
Cylinder
Prism
Pyramid
Cone



Sphere



Cube



Cube



Cylinder



Cone



Pyramid



Cone



Prism



Cylinder



Prism



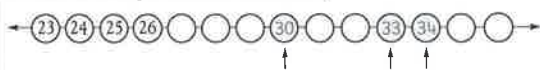
Pyramid

Children may confuse figures that have an unusual orientation. You may want to use real objects to help demonstrate this.

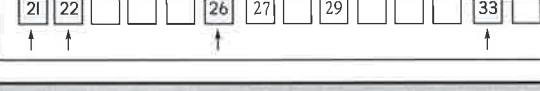
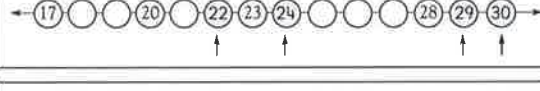
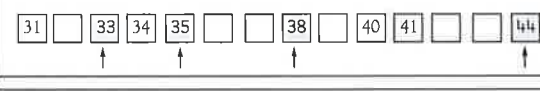
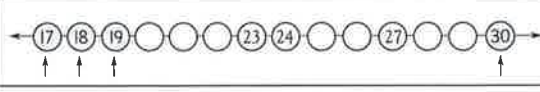
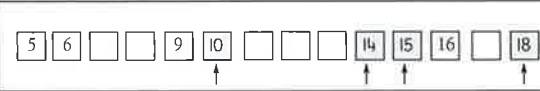
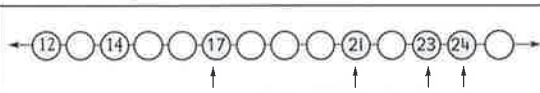
Counting



Write the missing number above each ↑.



Write the missing number above each ↑.



Each of the sequences involves counting by 1s. Children should fill in only the shapes marked with an arrow.

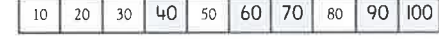
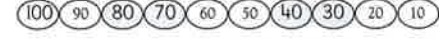


Finding patterns

Find the counting pattern. Write the missing numbers.



Find the counting pattern. Write the missing numbers.



It may be necessary to point out that some of the patterns show an increase and some a decrease. Children can see what operation turns a number into the next number in the pattern, and then perform the operation to continue the pattern.

Reading tally charts



Look at the tally chart. Then answer the questions.

Winners at Tag

Kelly	Mark	Sandy	Rita	Brad

Who won the most games? **Brad**

Who won more games, Sandy or Kelly? **Kelly**

How many more games did Rita win than Mark? **2 more**

Look at the tally chart. Then answer the questions.

Colours of T-Shirts sold

Blue	White	Green	Black

Which colour shirt was sold most? **Black**

How many green shirts were sold? **Black**

Which colour sold more, blue or green? **Blue**

How many black shirts were sold? **12**

How many more green shirts were sold than white shirts? **1 more**

How many more black shirts were sold than green shirts? **3 more**

How many T-shirts were sold in all? **40**

Look at the tally chart. Then answer the questions.

Snack choices

Chips	Cherries	Cheese	Cookie	Apple

How many people chose chips? **9**

Which snack did 7 people choose? **Apple**

Did more people choose chips or cookies? **Chips**

Which snack did the fewest people choose? **Cherries**

How many more people chose cheese than chips? **2 more**

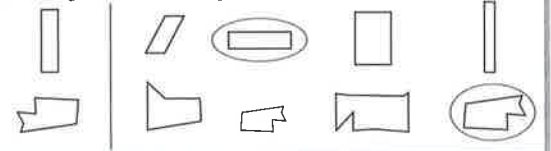
How many people chose apples and cherries? **12**

Children usually accept the concept of tally marks very quickly. They can count on by fives for completed tallies.

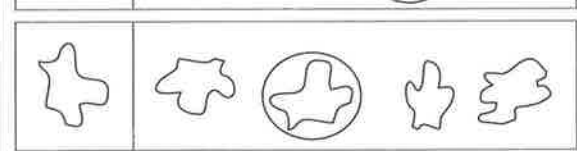
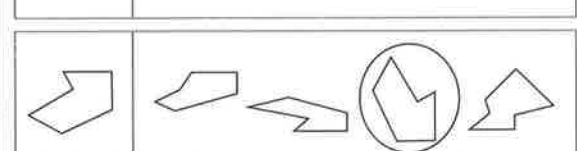
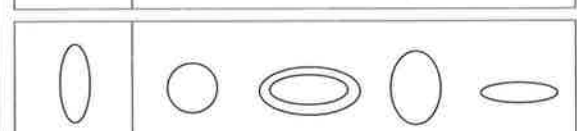
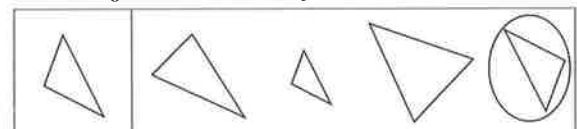


Same shape and size

Which figure has same shape and size?



Circle the figure that has same shape and size.





Make sure children look for both size and shape. They may have difficulty if the figures are drawn with different orientations.

153

Parts of a set


Write the fraction that shows the red part of the set.
How many of the fish are red?




How many  ? 3
How many fish in all? 4

Write the fraction. $\frac{3}{4}$ part of the set
whole set


Circle the fraction that shows the shaded part of the set.




$\frac{1}{3}$ $\frac{2}{3}$ $\frac{3}{2}$



$\frac{2}{3}$ $\frac{3}{5}$ $\frac{2}{5}$




$\frac{1}{4}$ $\frac{3}{4}$ $\frac{2}{4}$




$\frac{4}{5}$ $\frac{1}{5}$ $\frac{1}{4}$

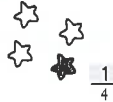
Write the fraction that shows the shaded part of the set.




$\frac{2}{3}$




$\frac{4}{5}$




$\frac{1}{4}$




$\frac{2}{5}$




$\frac{3}{7}$




$\frac{5}{8}$



$\frac{4}{7}$



$\frac{3}{8}$




$\frac{1}{6}$

If children have difficulties, point out that the denominator—or bottom number of the fraction—is the total number of parts. The numerator—or top part of the fraction—is the number of shaded parts.


154

Symmetry


Hold a mirror along the dotted line. Does it show a line of symmetry?



yes

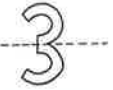




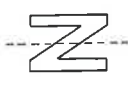

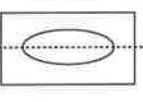
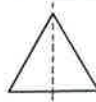
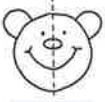

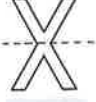


no



yes

Does the dotted line show a line of symmetry? Write yes or no.


 yes	 no	 yes
 yes	 no	 no
 yes	 yes	 yes
 yes	 yes	 yes

Some of these shapes have lines of symmetry in unusual positions. Let children use mirrors on the shapes if they are unsure of their answers.

155



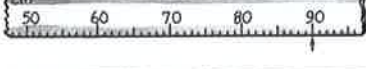


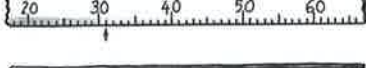

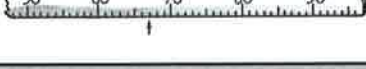
Measurement problems

Write the measurement shown by the arrow.



3 cm

Write the measurement shown by the arrow.


	7 cm
	4 cm
	90 cm
	73 cm
	45 cm
	31 cm
	28 cm
	67 cm

Children should be able to read off scales of this type relatively easily. Make sure that children include the units in their answers.


156

3-dimensional shapes

Write the name of each shape in the box.















prism



sphere

Write the name of each shape in the box.

 cone	 cylinder	 cone
 cube	 prism	 pyramid
 pyramid	 cone	 cube
 prism	 sphere	 cylinder

Children may be uncertain of the terms *prism* and *pyramid*. Show them objects to demonstrate the difference.



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