

SATs Survival Year 2
Parents' Practice and Revision
Maths - Reasoning
Answers

1

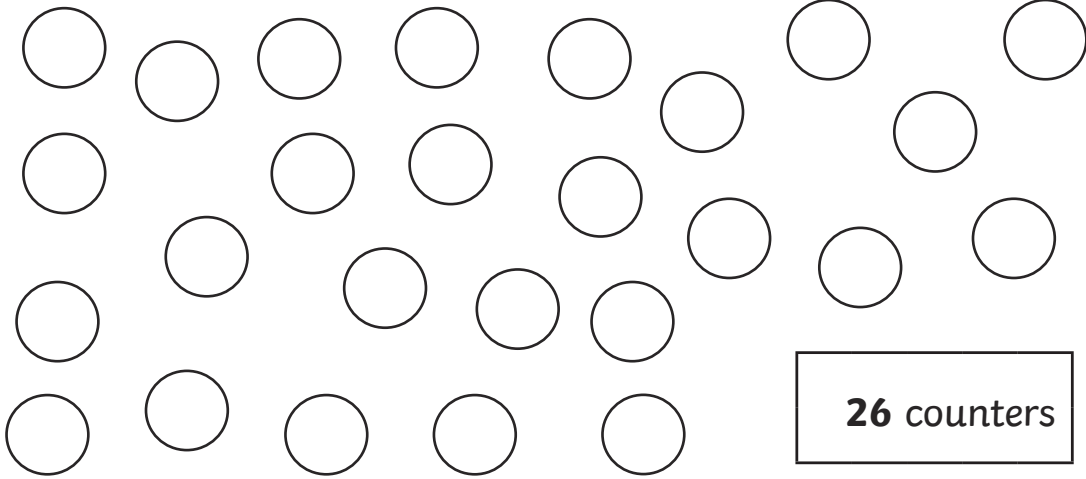
10 10 10
10 10
10 10 10

1

1 1 1
1 1
1 1 1

It is also fine to outline individual numbers.

2



26 counters

3

20

25

4

50 3

10

5

10

20

12 14 16 18

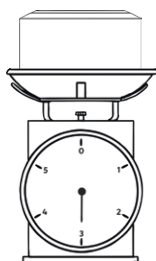
6

Sort the parcels from **lightest** to **heaviest**.

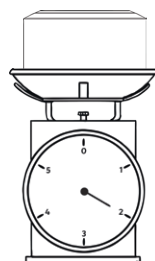
A



B



C



D

lightest

B

D

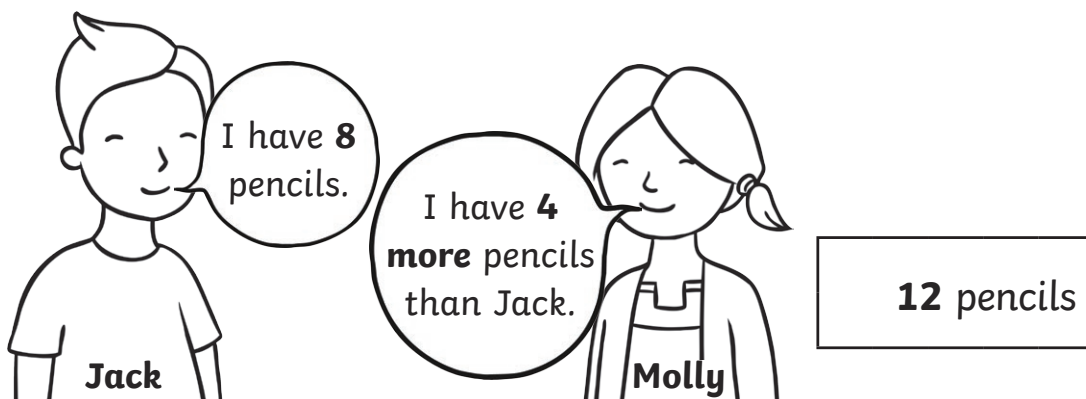
C

A

heaviest








7

How many pencils does Molly have?



8

Match each coin to the correct box. One has been done for you.

Less Than 		More Than 
	←	
		→
	←	
		→
		→

9

On these cards, the word should match the number. One of these cards is wrong. Draw a cross on the card that is wrong.

13

thirteen

18^X

eighty

29


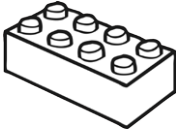


twenty-nine

31

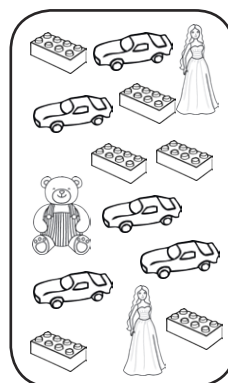
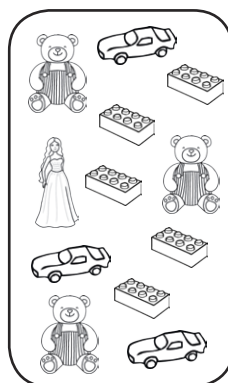
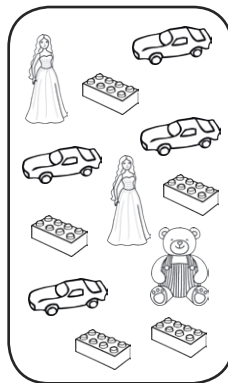
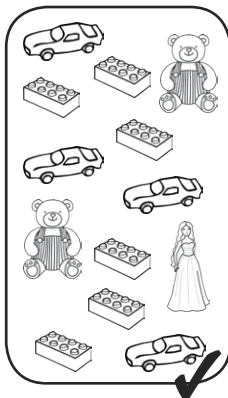
thirty-one

10

Anisha makes a tally chart of her toys.

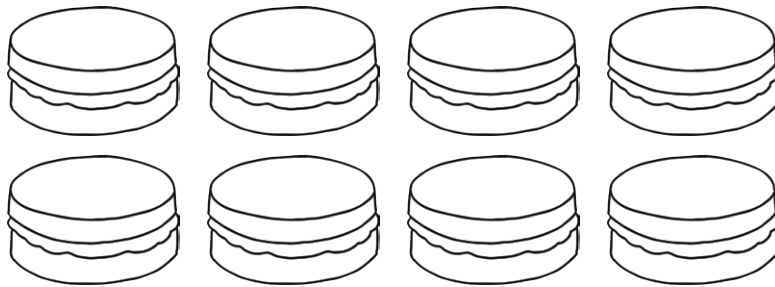
Toys In My Box	Tally
	
	I
	
	I

Tick **one** box below that shows all of Anisha's toys.



11

There are **20** cakes. **8** cakes are eaten.
How many cakes are left?

**12** cakes

12

Tick the **two** sentences that are correct.

Tick **two**.

A circle has one side.



A circle has straight sides.



A circle has no corners.



A circle has three sides.



13

Write two numbers to make this calculation correct.

$$\square + \square = 17$$

Any numbers acceptable if they total 17.

Now, write three numbers to make this calculation correct.

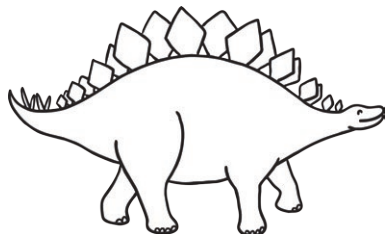
$$\square + \square + \square = 17$$

Any numbers acceptable if they total 17.

14

Abdul has some toy dinosaurs. He gives half of them to Max.
He has three toy dinosaurs left.

How many toy dinosaurs did Abdul start with?

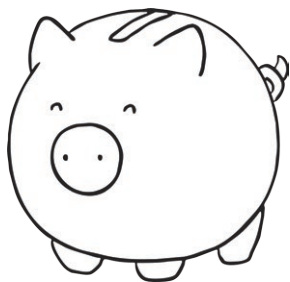


6 toy dinosaurs

15

Anisha has these coins in her piggy bank.

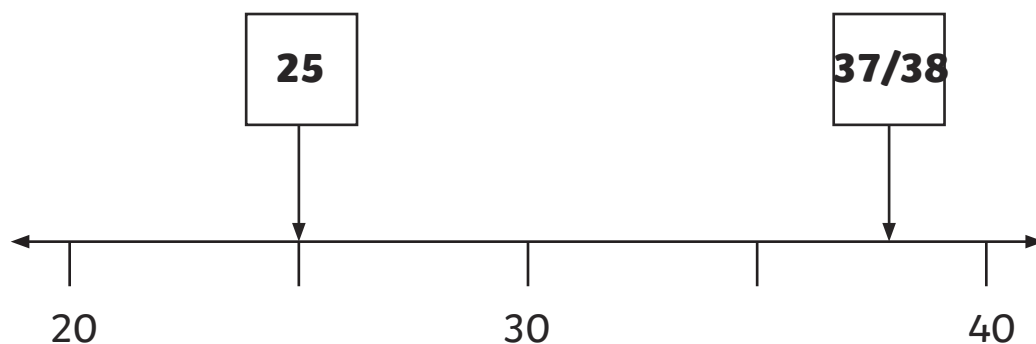
How much money does she have?



88p

16

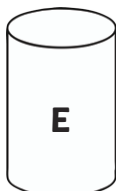
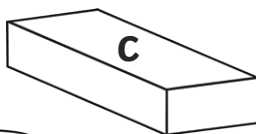
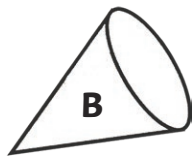
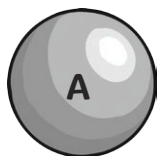
Write the correct number in each box.



17

Which shape has **3** faces?

Write the letter.



18

Callum and Ahmed share these biscuits equally.

How many biscuits do they each get?



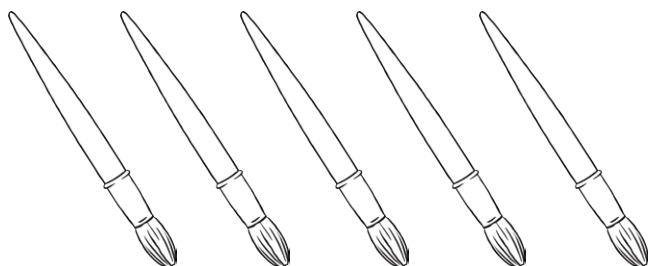
25 biscuits

19

Mrs Jones needs 25 paintbrushes for her class.

There are 5 paintbrushes in each box.

How many boxes of paintbrushes does Mrs Jones need altogether?



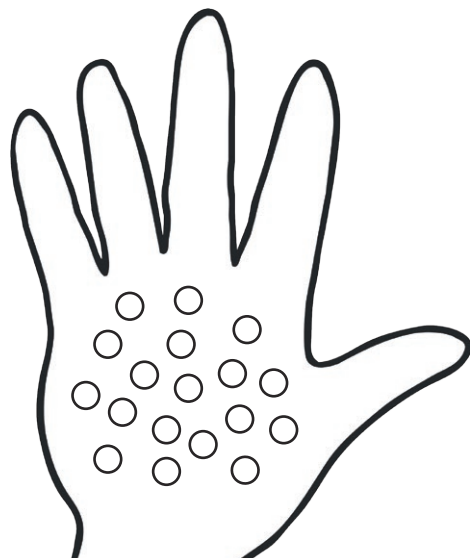
5 boxes

20

Molly has 25 beads altogether.

She has 18 beads in one hand.

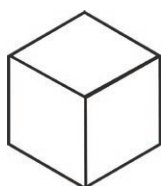
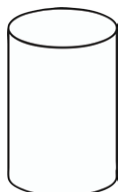
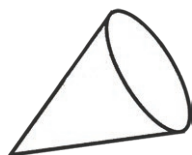
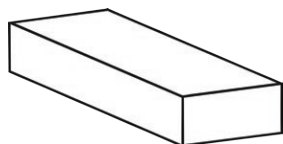
How many beads does she have in the other hand?



7 beads

21

Draw lines to match the shapes to their names.



cone

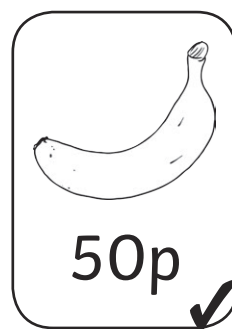
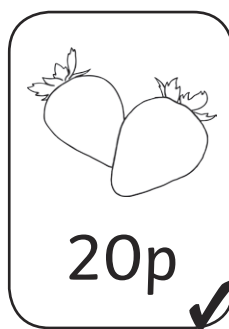
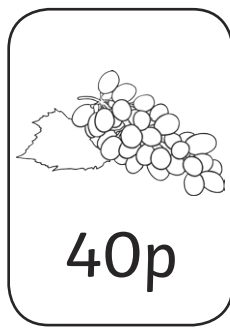
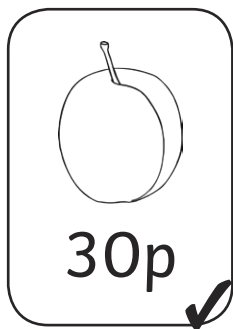
cylinder

cuboid

cube

22

Look at these four fruits:



Anisha buys **three different fruits**.

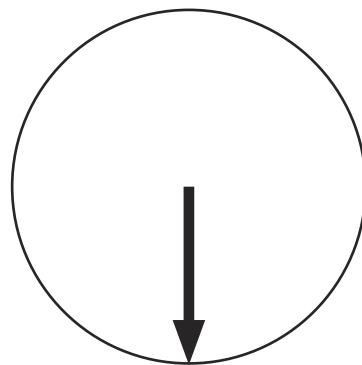
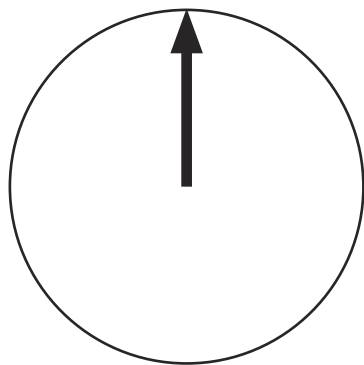
She spends exactly **£1**.

Tick the **three** fruits that she buys.

23

This arrow is rotated clockwise.

How much is the arrow rotated? Circle your answer.



quarter turn

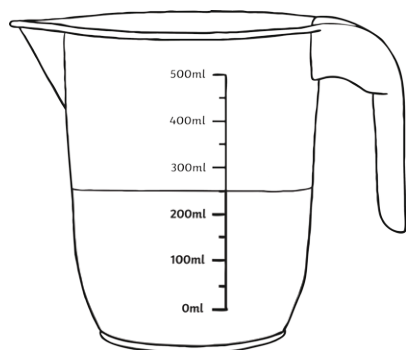
half turn

three-quarter
turn

full turn

24

How much water is in the jug?

**250** millilitres

25

Match the calculations that have the same answer.

One is done for you.

$30 + 3$

$30 + 33$

$60 + 3$

$60 + 23$

$80 + 3$

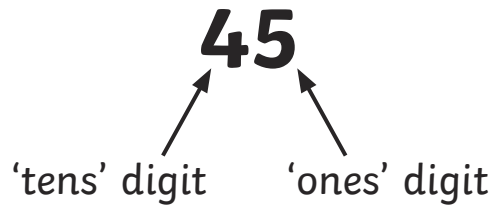
$20 + 13$

$70 + 3$

$40 + 33$

Tens and Ones

A 2-digit number is made up of the 'tens' digit and the 'ones' digit.



The number 45 has 4 tens and 5 ones. What we need to understand is that the 4 tens equal 40, and the 5 ones equal 5.

We can also write this as an addition number sentence.

$$45 = 40 + 5$$

Complete this table.

Number	Numbers of 'Tens'	Number of 'Ones'	Number Sentence
32	3	2	$32 = 30 + 2$
96	9	6	$96 = 90 + 6$
12	1	2	$12 = 10 + 2$
80	8	0	$80 = 80 + 0$
55	5	5	$55 = 50 + 5$
7	0	7	$7 = 0 + 7$

Complete these number sentences. The first one has been done for you.

$$30 + 5 = 20 + \boxed{15}$$

$$40 + 6 = 30 + \boxed{16}$$

$$60 + 1 = 40 + \boxed{21}$$

$$90 + 2 = 50 + \boxed{42}$$

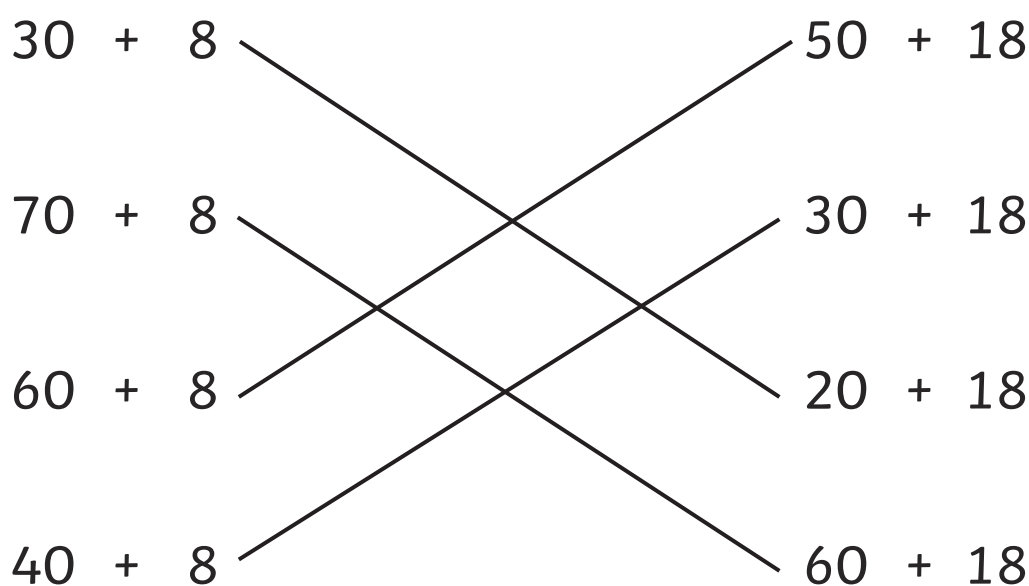
$$20 + 7 = \boxed{10} + 17$$

$$50 + 8 = \boxed{30} + 28$$

$$70 + 4 = \boxed{20} + 54$$

Now, match the sums that have the same answer.

30 + 8	50 + 18
70 + 8	30 + 18
60 + 8	20 + 18
40 + 8	60 + 18



Words and Figures

Make sure you know how to write the numbers from 1 to 100 in words as well. Learn the 'tens' numbers and the 'teens' numbers, and then look for patterns when you add the numbers 1 to 9 to the 'tens' numbers.

Practise writing these numbers as numerals and words.

1	one
2	two
3	three
4	four
5	five
6	six
7	seven
8	eight
9	nine
10	ten
11	eleven
12	twelve
13	thirteen
14	fourteen
15	fifteen
16	sixteen
17	seventeen
18	eighteen
19	nineteen

10	ten
20	twenty
30	thirty
40	forty
50	fifty
60	sixty
70	seventy
80	eighty
90	ninety
100	one hundred

Match these numbers to their names.

56	_____	ninety-nine
43	_____	forty-three
70	_____	fifty-six
21	_____	eighty-one
99	_____	seventy
81	_____	twenty-one

Two of these number cards are wrong. Which ones?

<div>50 fifteen</div>	<div>13 thirteen</div>	<div>21 twenty-one</div>	<div>96 sixty-nine</div>
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Ordering Numbers and Reading Scales

Looking at a scale or number line helps us to understand how to order numbers. Knowing the value of the 'tens' and 'ones' in 2-digit numbers helps us see whether a number is bigger or smaller than another one, and this helps us to order them.

Put these numbers in order from **smallest to largest**.

43, 56, 21, 8, 99, 12, 34

8, 12, 21, 34, 43, 56, 99

29, 19, 39, 9, 99, 79, 59

9, 19, 29, 39, 59, 79, 99

23, 26, 21, 28, 29, 22, 24

21, 22, 23, 24, 26, 28, 29

Put these numbers in order from **largest to smallest**.

73, 16, 91, 22, 89, 52, 4

91, 89, 73, 52, 22, 16, 4

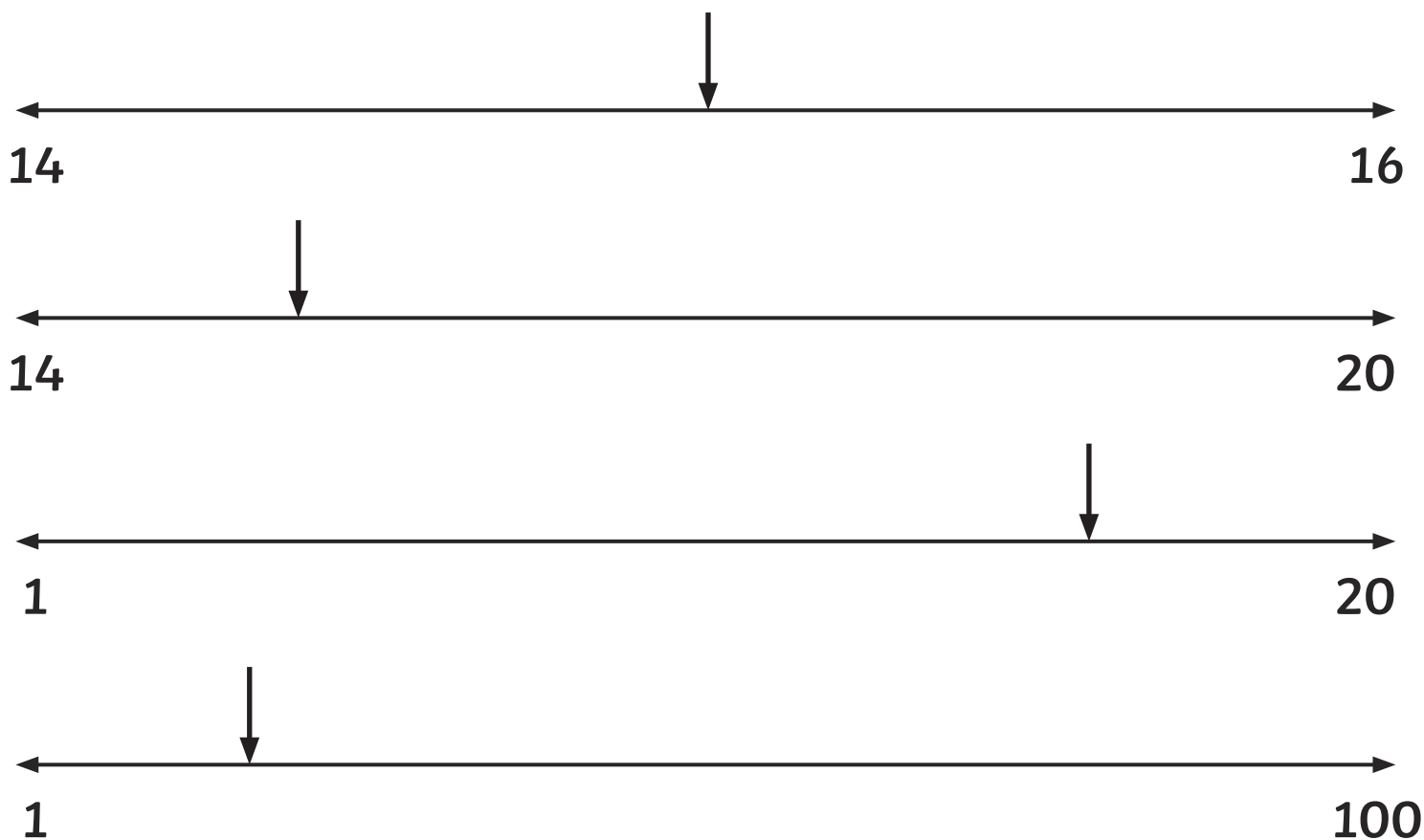
16, 36, 96, 6, 76, 26, 46

96, 76, 46, 36, 26, 16, 6

64, 65, 60, 67, 68, 63, 61

68, 67, 65, 64, 63, 61, 60

If you are asked to put numbers onto a number line, remember to look at the numbers at the start and finish of the line to help you understand what the number line is showing. For example, if you were asked to put '15' on these number lines, where would you put it?



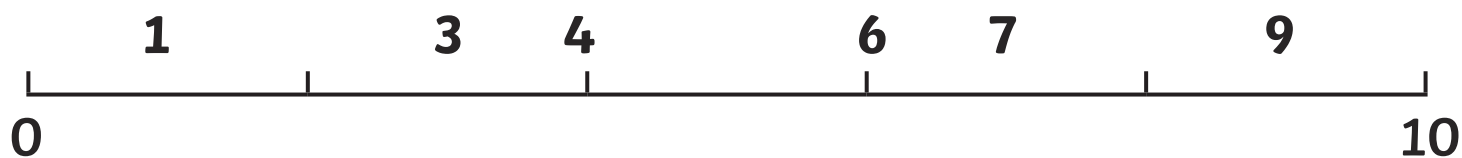
Sometimes the scales or number lines have divisions, which may not have numbers on them. What numbers do you think would go on the divisions here?



Sometimes you might be asked to put numbers on a number line.

Can you put these numbers in order on the number lines?

3, 7, 1, 6, 4, 9

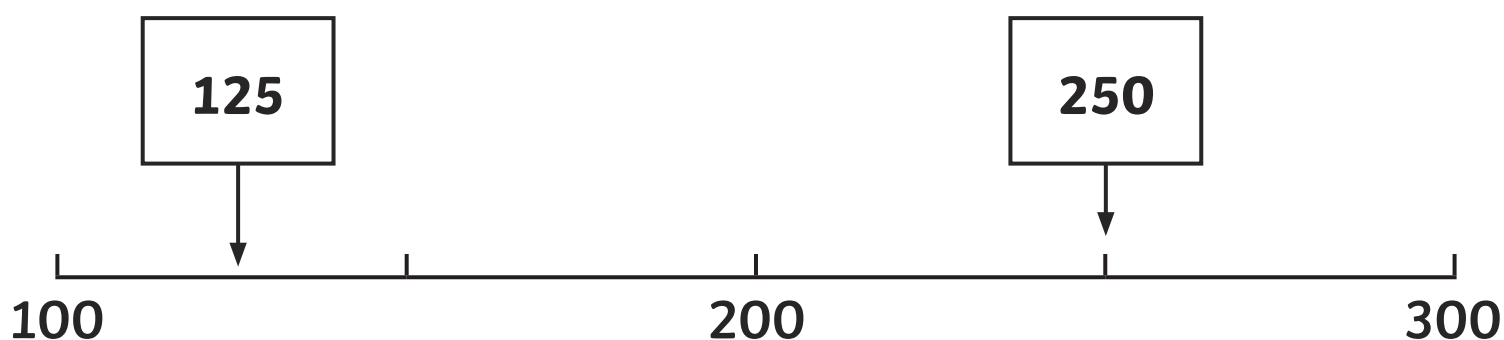
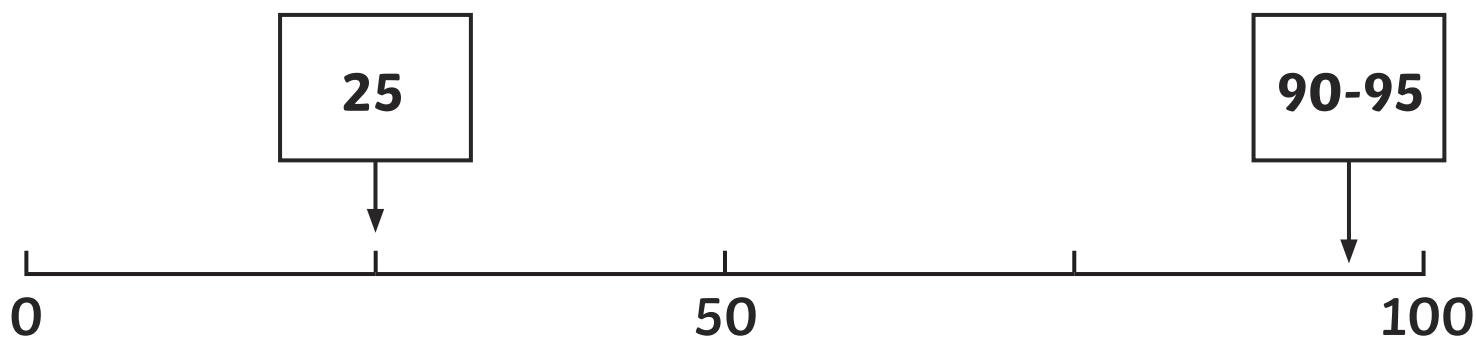
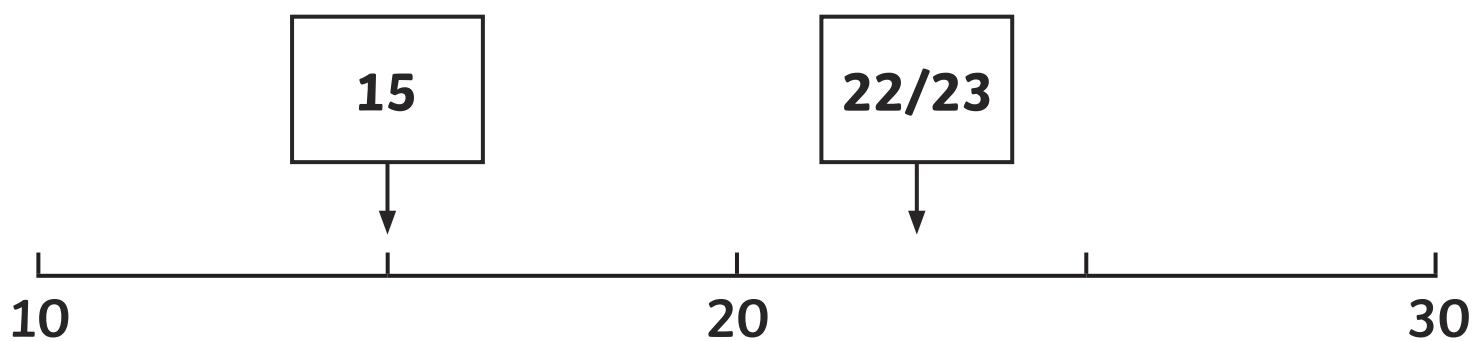


20, 49, 1, 10, 35, 43



You might be asked to say which number you think is being shown on a number line. This is where looking at the numbers and divisions will really help you.

What numbers are being shown on these number lines?
(Think about what the mark half way between each number is showing you).



Greater Than and Less Than

Put the correct sign in the boxes.

$25 \boxed{<} 32$

$41 \boxed{>} 14$

$99 \boxed{>} 45$

$14 \boxed{<} 35$

$16 > \boxed{}$

$30 > \boxed{}$

$\boxed{} < 99$

$54 > \boxed{}$

Any number suitable if it makes the equation work.

Try these. Remember to solve the calculation on each side of the box before you choose the symbol.

$3 + 5 \boxed{<} 4 + 6$

$21 + 5 \boxed{=} 20 + 6$

$7 + 8 \boxed{>} 9 + 3$

$30 + 40 \boxed{<} 20 + 60$

$4 + 3 \boxed{<} 4 \times 3$

$5 + 5 + 5 \boxed{=} 5 \times 3$

You can also solve problems using the '<', '>' and '=' signs.

The vet has come to weigh the animals at the zoo.

Here are the weights he has written down.

lion	80kg
tiger	95kg
chimpanzee	50kg
red panda	45kg

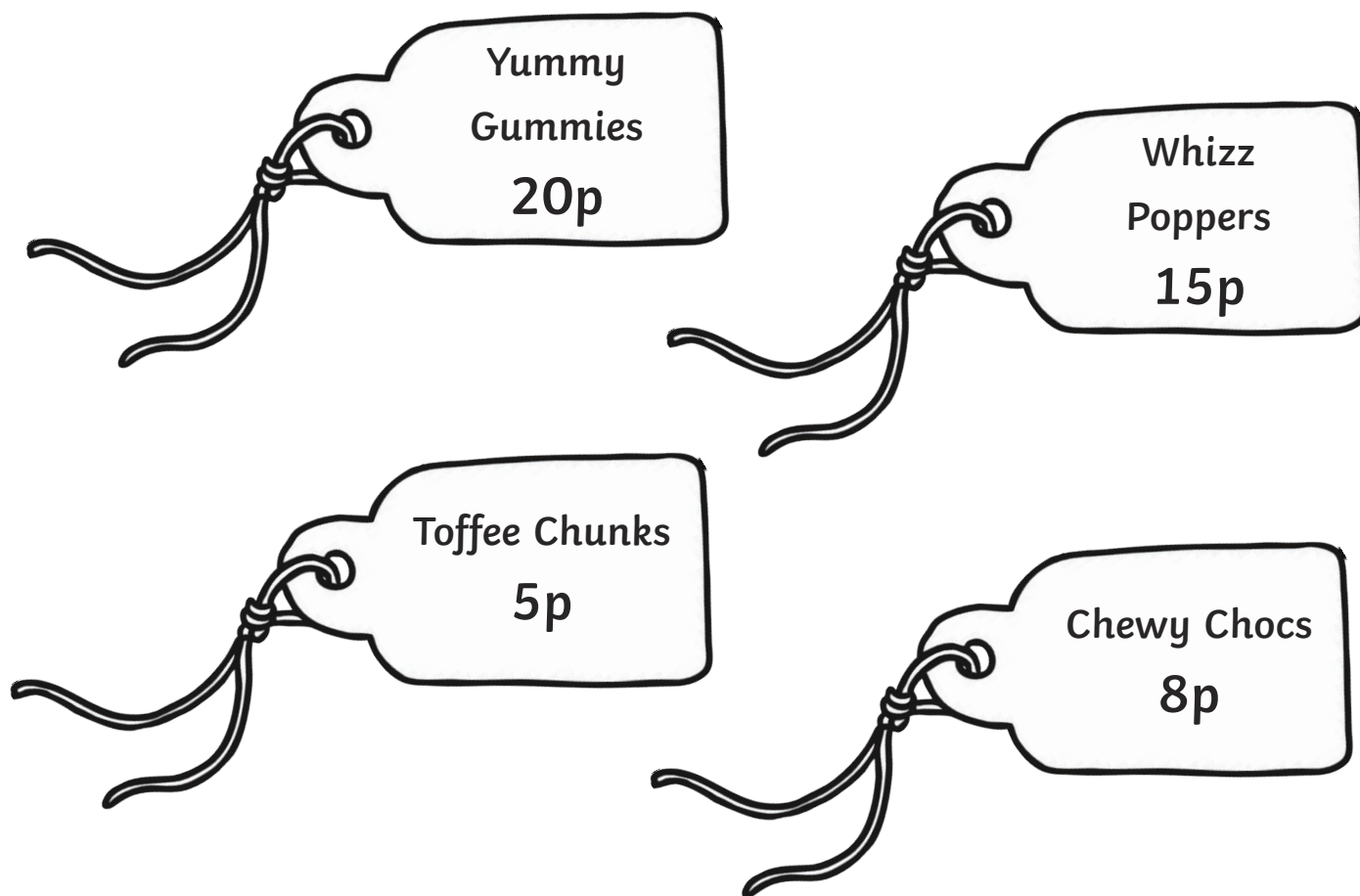
Fill in the boxes with <, > or =.

lion tiger

chimpanzee red panda

tiger chimpanzee + red panda

Here is the price of some sweets at the shop:



Fill in the boxes with $<$, $>$ or $=$.

Chewy Chocs $>$ Toffee Chunks

Yummy Gummies $>$ Chewy Chocs

Fill in the boxes.

Chewy Chocs $<$ **Whizz Poppers or Yummy Gummies**

Yummy Gummies $=$ Whizz Poppers + Toffee Chunks

Addition Problems

There are 7 fish in the school fish tank. Mrs Smith goes to the pet store and buys 7 more. How many fish are there now?

$$7 + 7 = 14 \text{ fish}$$

Harry says, 'I have eaten 4 sweets.' Abdul says, 'I have eaten 5 more than you.' How many sweets has Abdul eaten?

$$5 + 4 = 9 \text{ sweets}$$

Here is a chart showing the number of pencils in a pot.

red	5
blue	9
green	3

How many red and blue pencils are there altogether?

$$5 + 9 = 14 \text{ red and blue pencils}$$

How many red and green pencils are there altogether?

$$5 + 3 = 8 \text{ red and green pencils}$$

What is the total number of pencils in the pot?

$$5 + 9 + 3 = 17 \text{ pencils altogether}$$

Subtraction Problems

There are 18 butterflies on a bush. 7 fly away. How many are left?

$$18 - 7 = 11 \text{ butterflies}$$

There are 25 children in the classroom. 10 children go to see the school nurse. How many children are left in the classroom?

$$25 - 10 = 15 \text{ children}$$

Amy and Sunita are building towers from bricks. Amy's tower is 20cm tall. Sunita's tower is 25cm tall. How much shorter is Amy's tower?

$$25 - 20 = 5\text{cm shorter}$$

Green Class are measuring the temperature in their classroom over a whole day. They find that the lowest temperature was 8°C and the highest was 14°C. What is the difference between the two temperatures?

$$14 - 8 = 6^{\circ}\text{C}$$

Adding and Subtracting Tens and 2-Digit Numbers

Counting on in Tens

Count on in 10s from these numbers.

4	14	24	34	44	54
---	----	----	----	----	----

35	45	55	65	75	85
----	----	----	----	----	----

1	11	21	31	41	51
---	----	----	----	----	----

Try these calculations. Solve them by counting on in 10s.

$$67 + 10 = 77$$

$$54 + 10 + 10 = 74$$

$$20 + 10 + 10 + 10 = 50$$

Now, think about how many tens you need to count on.

$$35 + 20 = 55$$

$$18 + 30 = 48$$

Counting Back in Tens

Count back in 10s from these numbers.

82	72	62	52	42	32
60	50	40	30	20	10
57	47	37	27	17	7

Now, try these calculations. Solve them by counting back in 10s.

$$34 - 10 = 24$$

$$42 - 10 - 10 = 22$$

$$99 - 10 - 10 - 10 - 10 = 59$$

Now, think about how many tens you need to count back.

$$78 - 30 = 48$$

$$48 - 40 = 8$$

Now, let's try some word problems.

Remember to underline the important information before you start.

There are 25 children in Red Class and 23 children in Green Class. How many children are there altogether?

$$25 + 23 = 48 \text{ children}$$

There are 55 children playing football on the playground. 14 of them are called in for lunch. How many children are left?

$$55 - 14 = 41 \text{ children}$$

Ahmed reads 16 pages of his new book. There are 25 pages left to read. How many pages does the book have altogether?

$$16 + 25 = 41 \text{ pages}$$

Mrs Smith has a box of 35 new pencils. She gives out 18 of them to her class. How many pencils are left?

$$35 - 18 = 17 \text{ pencils}$$

Value of Coins

First, let's recap the value of all our different coins.
Draw lines to join these coins to their values.

1p

2p

5p

10p

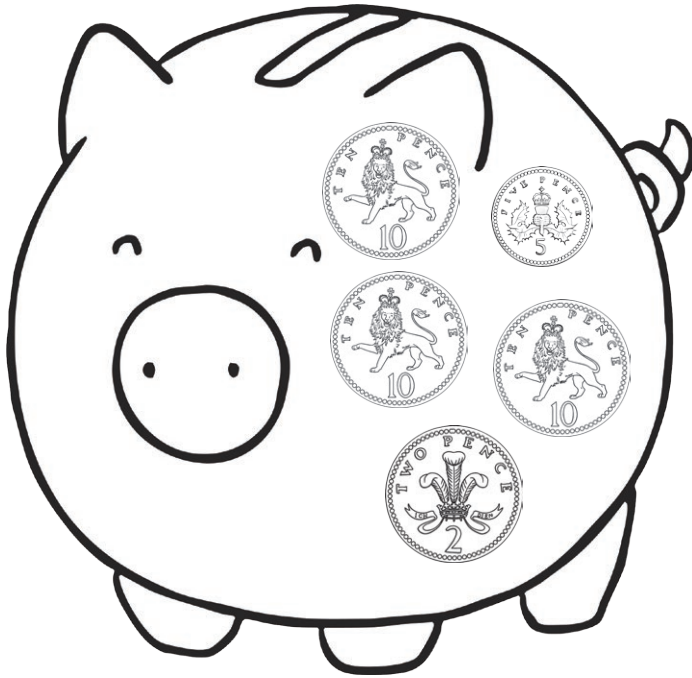
20p

50p

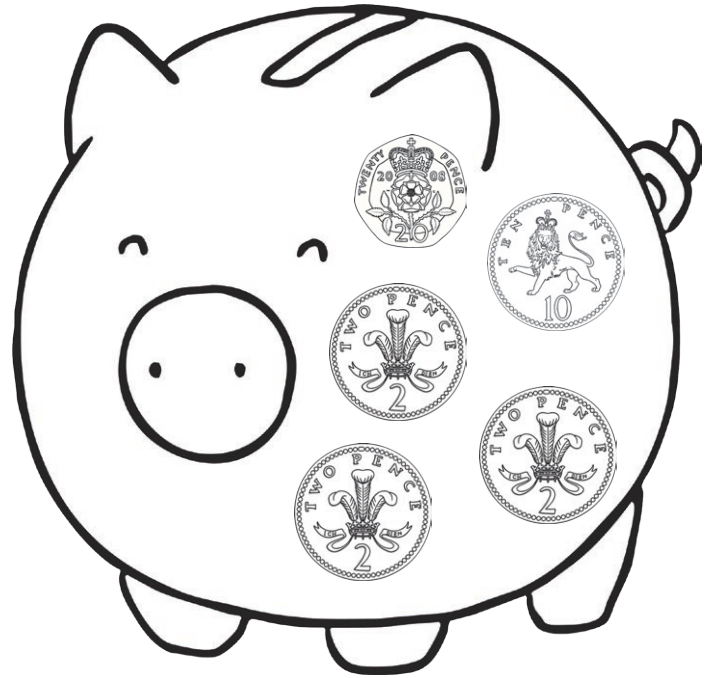
£1

£2

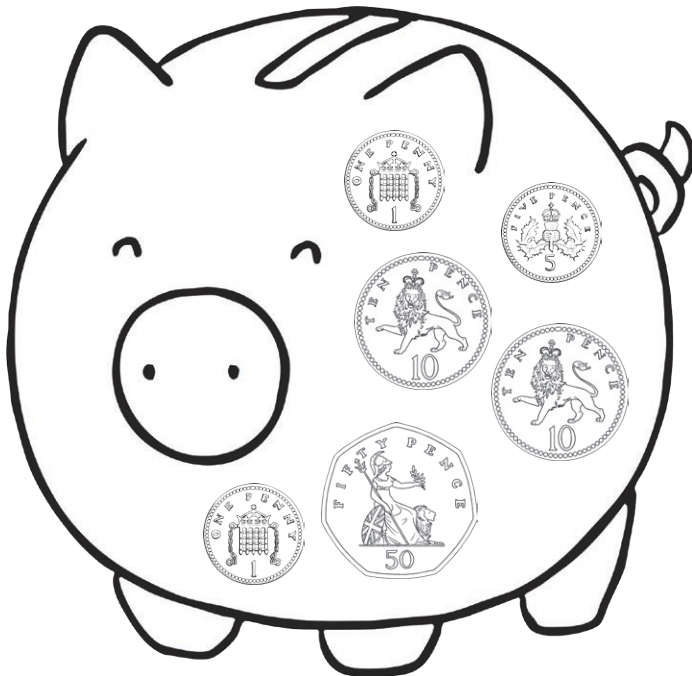
How much money is in these piggy banks?



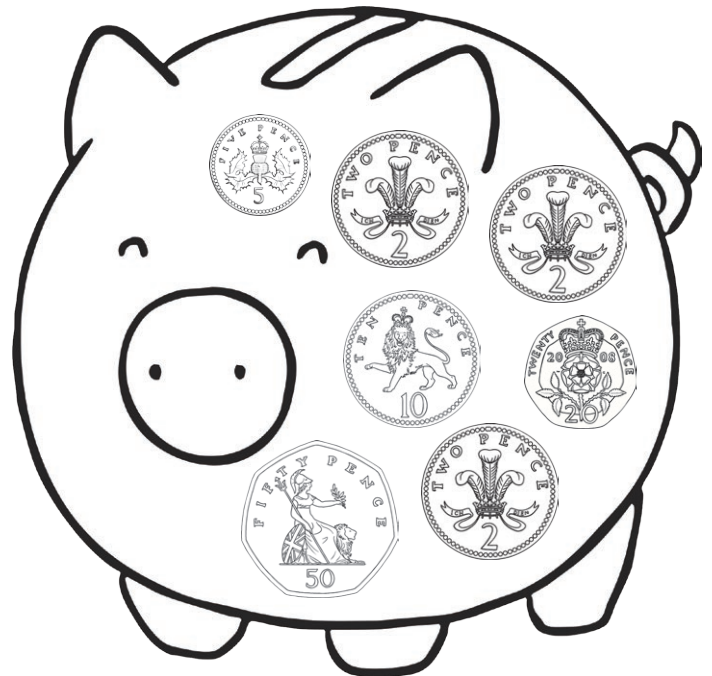
37p



36p



77p



91p

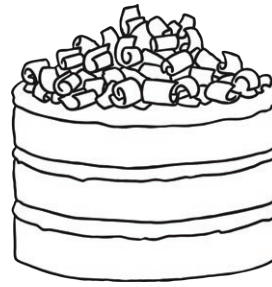
There are some cakes for sale at the summer fair.



fairy cake
10p



flapjack
20p



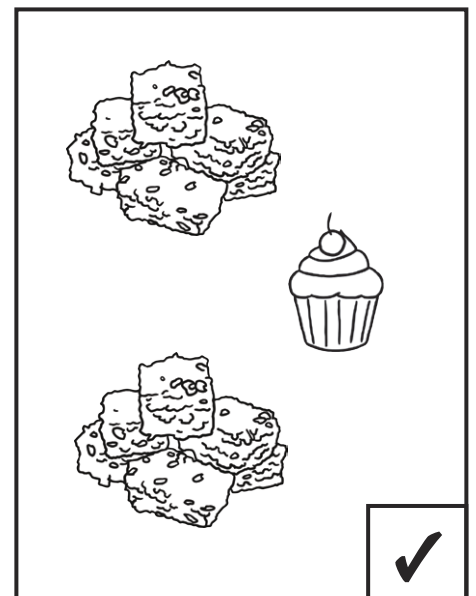
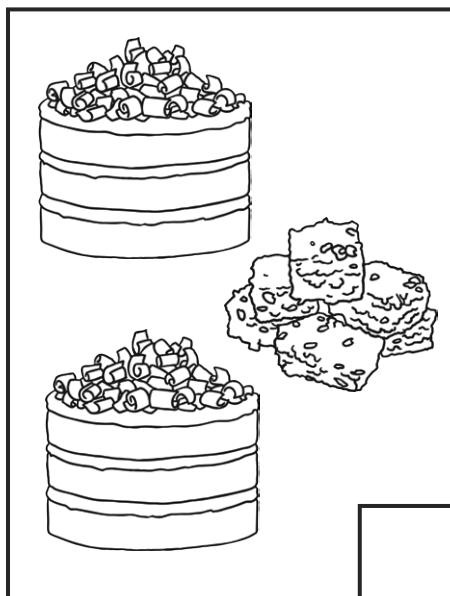
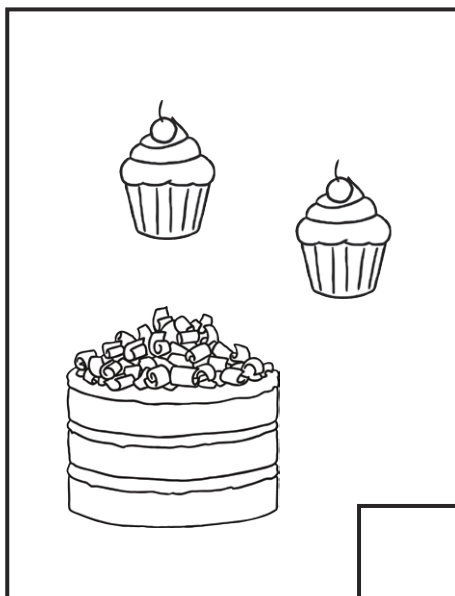
chocolate cake
25p



cookie
30p

Jack spends exactly 50p on cakes.

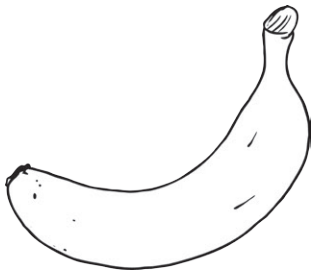
Tick the box that shows the cakes he bought.



Jack only has 5p pieces in his pocket. He says, 'I will not be able to pay exactly with 5p pieces.' Is he right? Explain how you know.

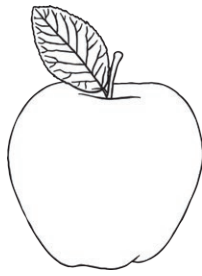
No, he is not right because he needs to pay 50p and 50 is divisible by 5 (in the 5x table) so he can pay with 5p pieces. He will need 10 of them because $10 \times 5 = 50$.

Here is the fruit on sale at the shop today:



banana

22p



apple

34p



pear

31p



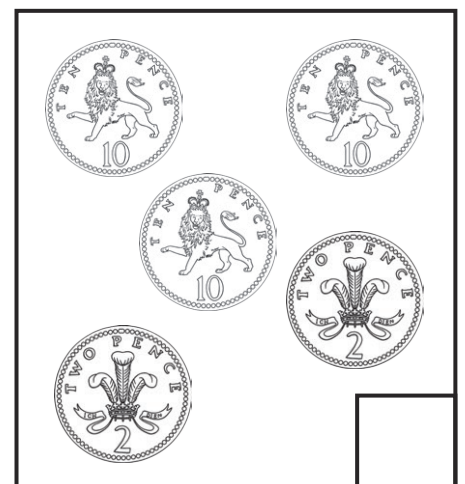
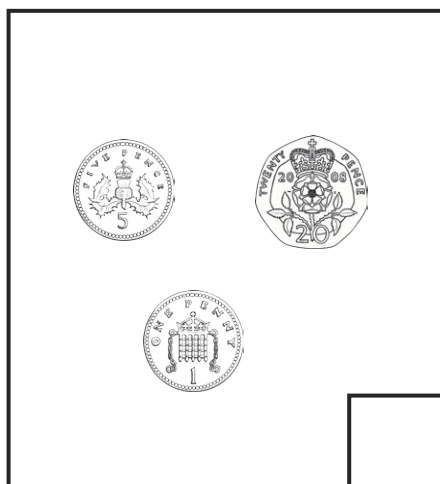
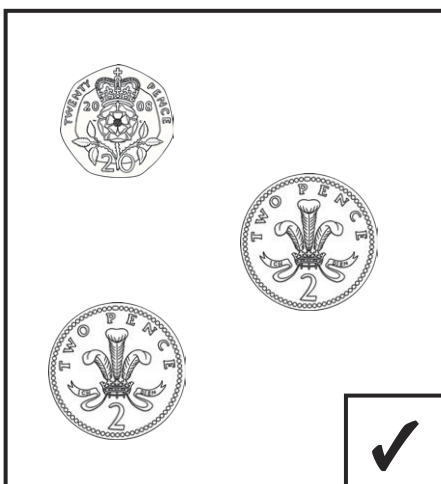
grapes

42p

Show the change you would receive if you bought each piece of fruit and paid with a 50p piece.

Fruit	Price	Change from 50p
banana	22p	28p
apple	34p	16p
pear	31p	19p
grapes	42p	8p

Lucy buys an apple and some grapes. She pays with a £1 coin. Tick the box which shows the change she receives.



Use whichever method you prefer to solve these problems.

There are 12 children in the room. How many legs are there?

Each child has 2 legs, which makes 12 lots of 2.

$$12 \times 2 = 24 \text{ legs}$$

Bananas cost £2 a bunch. William buys 4 bunches. How much does he pay?

$$4 \times 2 = £8$$

Maddy swims 6 widths of the pool. Each width is 10 metres. How far does she swim altogether?

$$6 \times 10 = 60 \text{ metres}$$

There are 7 days in one week. How many days are there in 5 weeks?

$$7 \times 5 = 35 \text{ days}$$

Laura needs 15 litres of cola for a party. One bottle of cola holds 2 litres and she has 8 bottles. Does she have enough cola? Show how you know.

She does have enough. We know this because $8 \times 2 = 16$ litres so this is more than the 15 litres that she needs.

Use whichever method you prefer to solve these problems.

There are 50 toes in the room. How many people are there?

Each person has 10 toes.

$50 \div 10 = 5$ people.

Joe put three scoops of ice cream onto each cone. He made 21 scoops altogether. How many cones were there?

$21 \div 3 = 7$ cones

A box holds 5 pencils. Mrs Brown needs 30 pencils for her class. How many boxes does she need?

$30 \div 5 = 6$ boxes

Ben spends £1 on raffle tickets. He is given 10 tickets. How much is each ticket?

£1 is the same as 100p.

$100 \div 10 = 10$ p

Ruby shares 23 sweets equally between 5 of her friends. Any sweets left over, she keeps for herself. How many sweets does Ruby get?

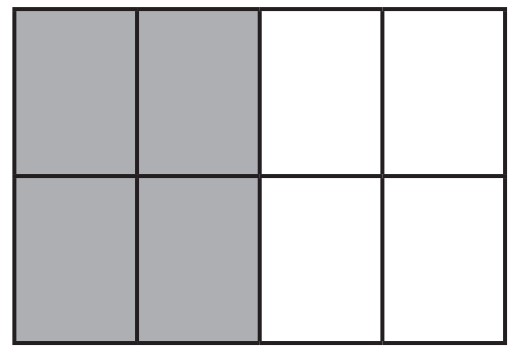
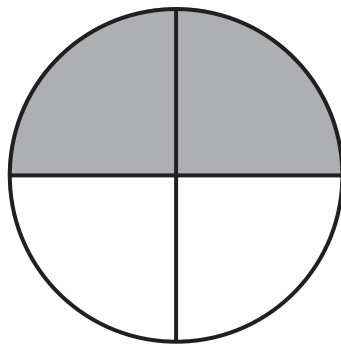
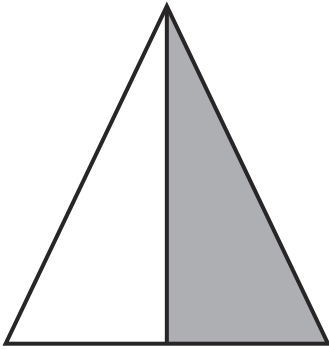
Ruby gets 3 sweets.

$23 \div 5 = 4$ (remainder 3)

Fractions of Shapes

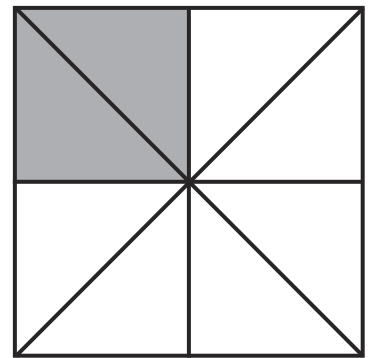
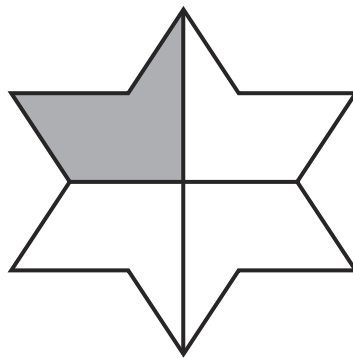
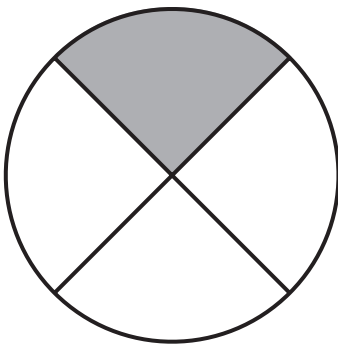
First, let's look at finding fractions of shapes.

Shade $\frac{1}{2}$ of each of these shapes.



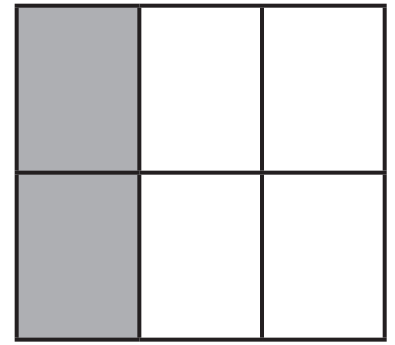
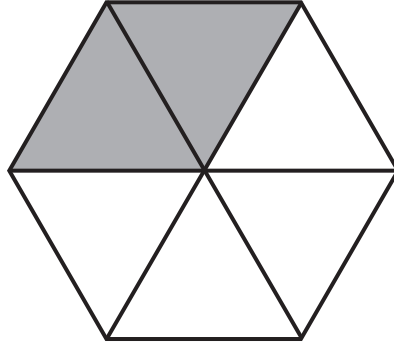
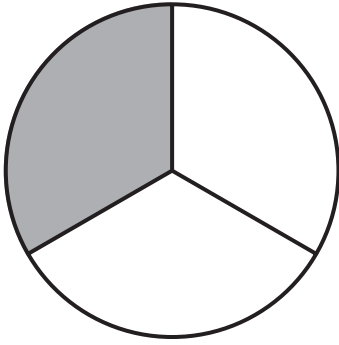
1 section of the triangle, 2 sections of the circle and 4 sections of the rectangle should be shaded. It doesn't matter which sections you shade, as long as the correct number of sections are shaded.

Now shade $\frac{1}{4}$ of these shapes.



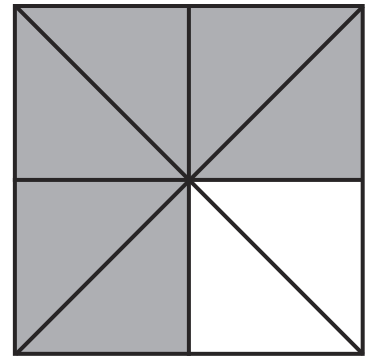
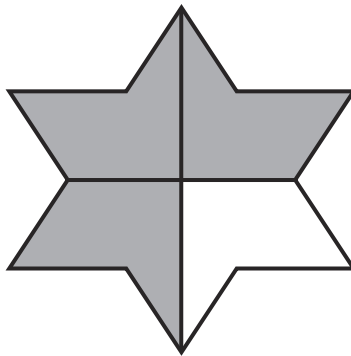
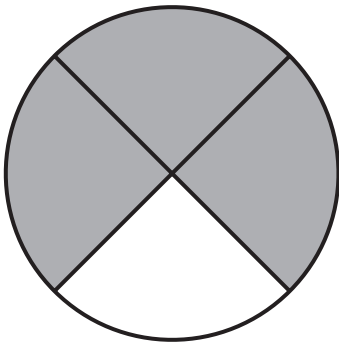
1 section of the first two shapes and 2 sections of the last shape should be shaded. It doesn't matter which sections you shade, as long as the correct number of sections are shaded.

Shade $\frac{1}{3}$ of these shapes.



1 section of the circle, 2 sections of the hexagon and 2 sections of the square should be shaded. It doesn't matter which sections you shade, as long as the correct number of sections are shaded.

Shade $\frac{3}{4}$ of these shapes.



3 sections of the first two shapes, and 6 sections of the last shape should be shaded. It doesn't matter which sections you shade, as long as the correct number of sections are shaded.

Fraction of Quantities

The same thing applies when we are finding fractions of quantities. You need to make sure you know your $2\times$ and $3\times$ tables and that you are confident with halving. Let's practise. Use objects like buttons, beads or pieces of pasta if this helps you.

	Find $\frac{1}{2}$
2	1
4	2
6	3
8	4
10	5
12	6
14	7
16	8
18	9
20	10

Now, let's try finding $\frac{1}{4}$. Remember to find half and then halve again.

	Find $\frac{1}{2}$	Find $\frac{1}{4}$
4	2	1
8	4	2
12	6	3
16	8	4
20	10	5
24	12	6
28	14	7
32	16	8
36	18	9
40	20	10

Now, see if you can find $\frac{3}{4}$. Remember, find $\frac{1}{4}$ then multiply this by 3.

	Find $\frac{1}{2}$	Find $\frac{1}{4}$	Find $\frac{3}{4}$
4	2	1	3
8	4	2	6
12	6	3	9
16	8	4	12
20	10	5	15
24	12	6	18
28	14	7	21
32	16	8	24
36	18	9	27
40	20	10	30

Finally, let's find $\frac{1}{3}$.

	Find $\frac{1}{3}$
3	1
6	2
9	3
12	4
15	5
18	6
21	7
24	8
27	9
30	10

There are 24 children in Gold Class. Half of them are girls.
How many are boys?

$\frac{1}{2}$ of 24 is 12, so there must be 12 girls and 12 boys.

Molly has some pens. She gives half of them to Chloe. Molly has 6 pens left.
How many did she start with?

6 is half of 12, so she had 12 pens to start with.

Jack has saved £12. He spends $\frac{1}{4}$ of his money on a new toy car.
How much does the car cost? How much does Jack have left?

$\frac{1}{4}$ of £12 is £3

The car cost £3.

£12 – £3 = £9

He has £9 left.

My cake recipe says I need 60ml of milk. I have to add $\frac{1}{3}$ of the milk to the mixture. How much do I need to add?

$\frac{1}{3}$ of 60ml is 20ml.

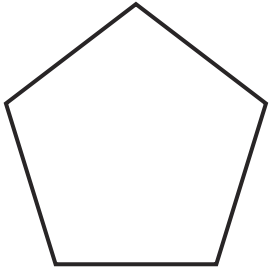
Kim has a piece of ribbon, which is 28cm long. She cuts $\frac{3}{4}$ of it off.
How long are her two pieces of ribbon?

$\frac{3}{4}$ of 28 cm is 21cm ($\frac{1}{4}$ is 7cm, 3×7 cm is 21cm) so the pieces of ribbon are 21cm and 7cm long.

Properties of 2D Shapes

First, let's remind ourselves of the shape names. Label these shapes.

circle square triangle rectangle pentagon hexagon octagon



Name **pentagon**

Sides **5**

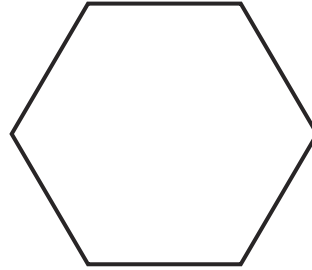
Corners **5**



Name **rectangle**

Sides **4**

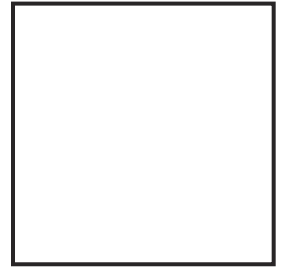
Corners **4**



Name **hexagon**

Sides **6**

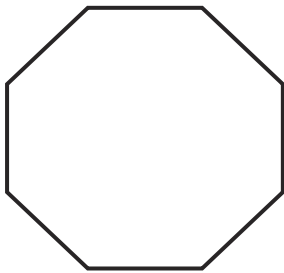
Corners **6**



Name **square**

Sides **4**

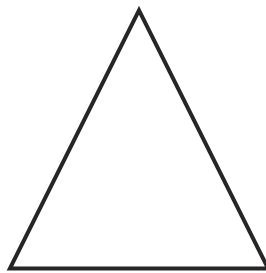
Corners **4**



Name **octagon**

Sides **8**

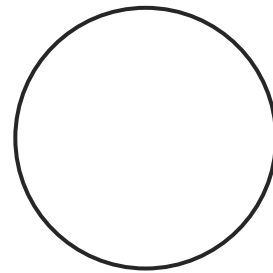
Corners **8**



Name **triangle**

Sides **3**

Corners **3**



Name **circle**

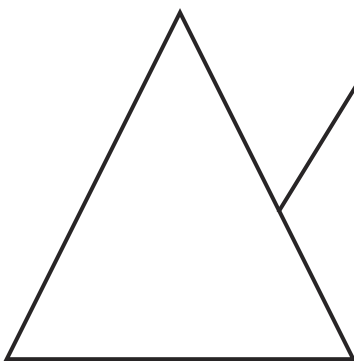
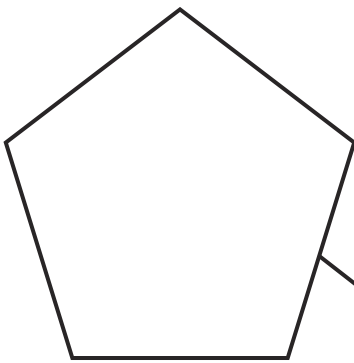
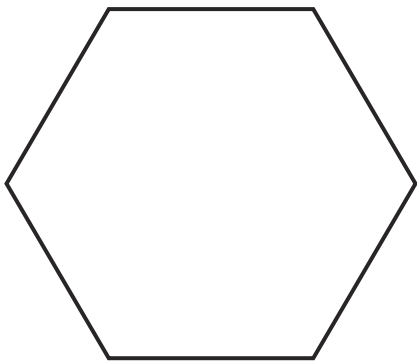
Sides **1**

Corners **no corners**

Now, write how many sides and how many corners each shape has.

Try some questions on the next page.

Draw lines to match these shapes to their names.



triangle

hexagon

octagon

pentagon

Write these shape names in the correct place in the Carroll diagram.

square

hexagon

rectangle

circle

4 Sides or Less	More Than 4 Sides
<p>square</p> <p>rectangle</p> <p>circle</p>	<p>hexagon</p>

Which statements are correct? Tick **two**.

A square has four sides.

☒

A square is symmetrical.

☒

The sides of a square are not the same length.

☐

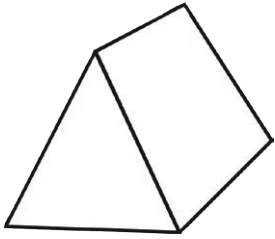
A square has one curved side.

☐

Properties of 3D Shapes

First, let's remind ourselves of the 3D shape names. Label these shapes.

sphere cube cuboid cylinder cone triangular prism
square-based pyramid triangular-based pyramid

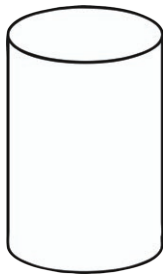


Name **triangular prism**

Faces **5**

Edges **9**

Vertices **6**

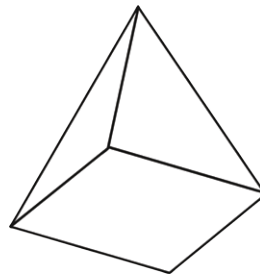


Name **cylinder**

Faces **3**

Edges **2**

Vertices **0**



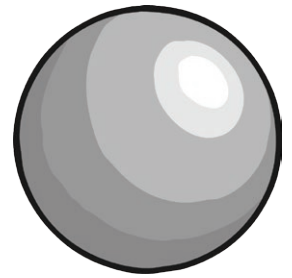
square

Name **based-pyramid**

Faces **5**

Edges **8**

Vertices **5**

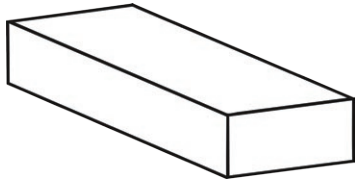


Name **sphere**

Faces **1**

Edges **0**

Vertices **0**

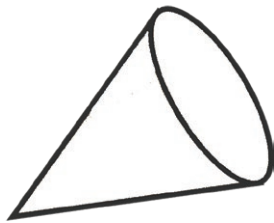


Name **cuboid**

Faces **6**

Edges **12**

Vertices **8**

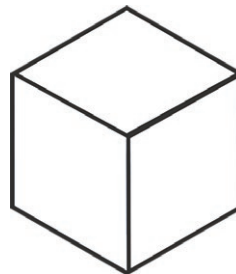


Name **cone**

Faces **2**

Edges **1**

Vertices **1**

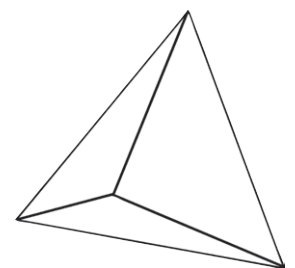


Name **cube**

Faces **6**

Edges **12**

Vertices **8**



triangular

Name **based-pyramid**

Faces **4**

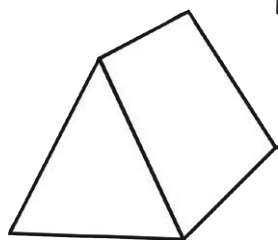
Edges **6**

Vertices **4**

Now, write how many faces, edges and vertices each shape has.

Shape Problems

Adam is painting by printing with a 3D shape. His 3D shape is a triangular prism. What two 2D shapes can he make?



He can make triangles and rectangles.

Mo says, 'A cone has no vertices.' Is he correct? Explain your answer.

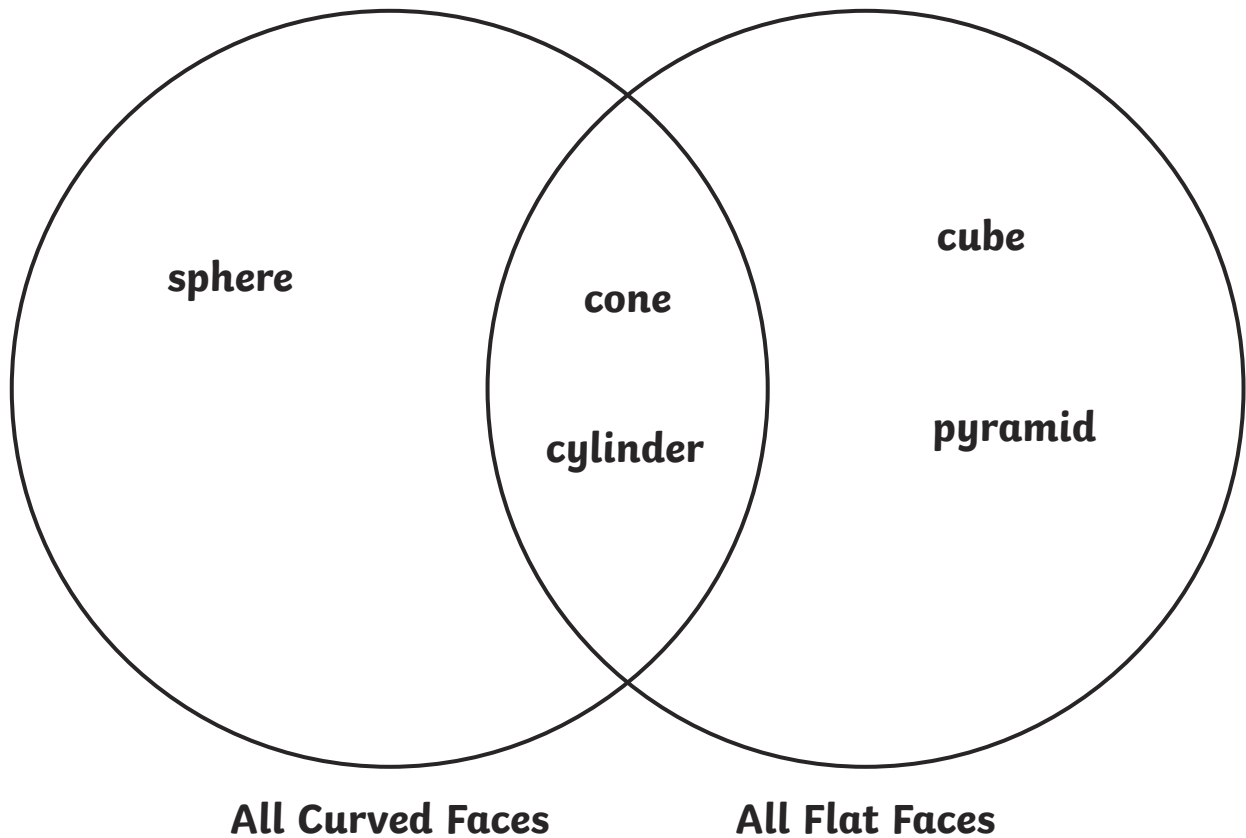
No he is not right. A cone has one vertex.

Priya is holding a 3D shape. She says, 'My shape has five faces. Four of the faces are the same shape and one is different.' What shape is Priya holding?

She is holding a square-based pyramid.

Write these shape names in the correct place in the Venn diagram.

sphere cube cone cylinder pyramid



Which statements are correct? Tick **two**.

A square has four sides.

☒

A square is symmetrical.

☒

The sides of a square are not the same length.

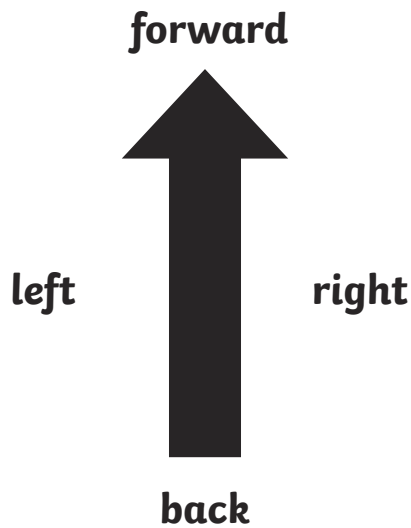
☐

A square has one curved side.

☐

Position and Direction

First, let's look at movement and turning. Look at this arrow:



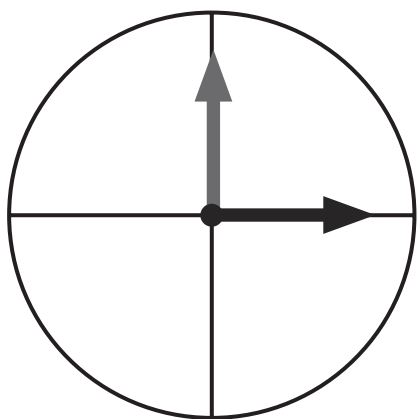
Draw what the arrow would look like if it turned to the left.



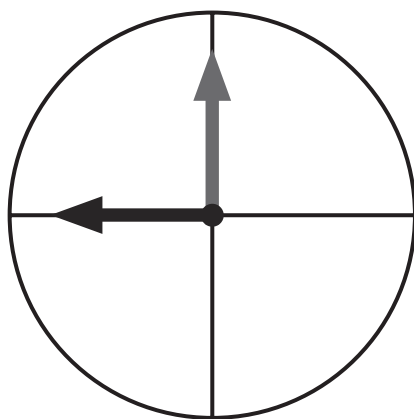
Now, draw what it would look like if it turned to the right.



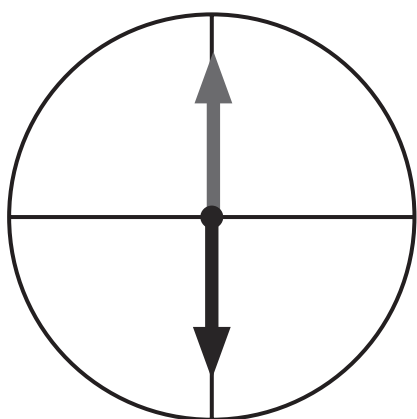
Draw arrows to show these movements. The grey arrow shows where to start.
The first one has been done for you.



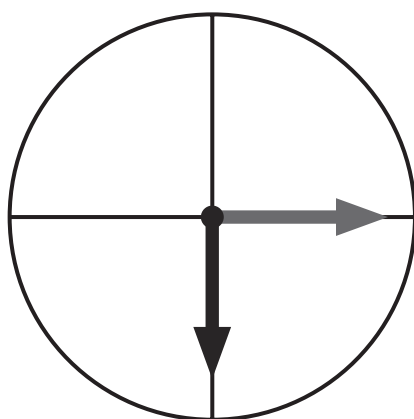
quarter turn clockwise



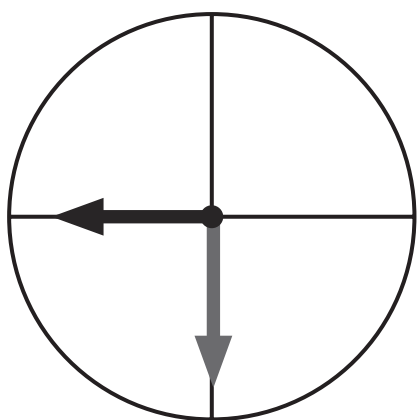
three-quarter turn clockwise



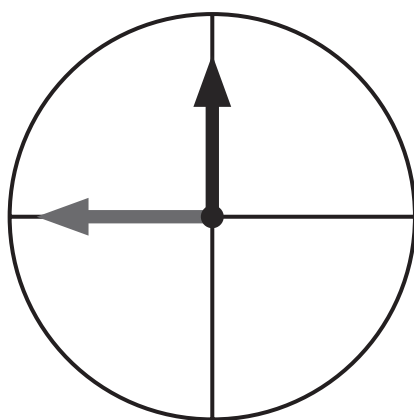
half turn anti-clockwise



quarter turn clockwise



three-quarter turn anti-clockwise



quarter turn clockwise

Complete these sequences.

15, 20, 25, 30, 35, 40, 45, 50

1, 3, 5, 7, 9, 11, 13, 15



Look at this sequence. What would the 10th term be? **20**

2, 4, 6, 8, 10, 12

Look at this sequence. What would the 8th term be? **24**

3, 6, 9, 12

Look at this sequence. What would the 9th term be? ○



Look at this sequence. What would the 12th term be? ○



Fill in the missing sections in these sequences.

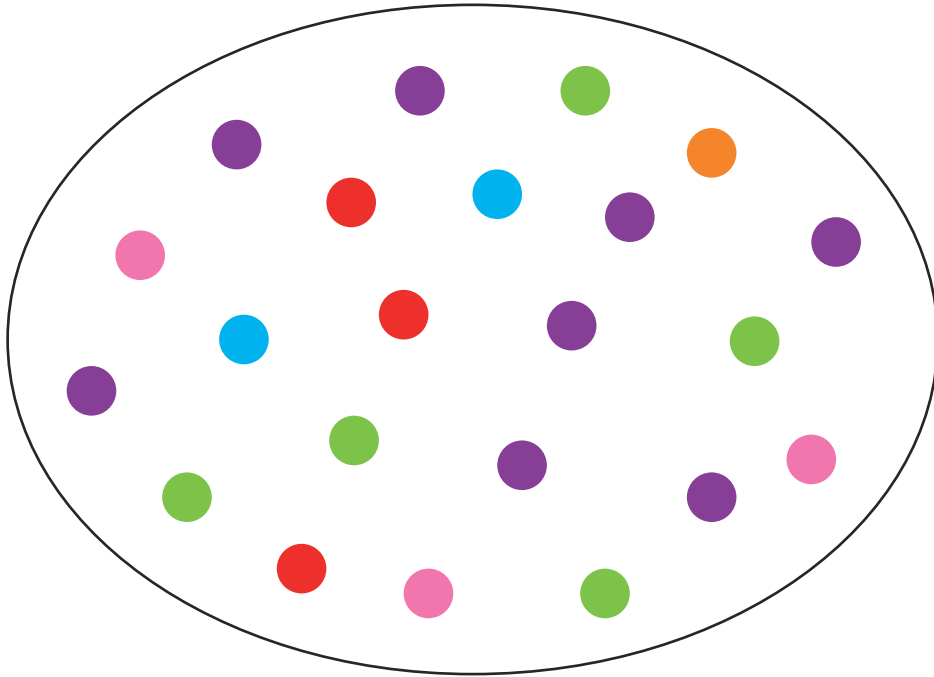
	2				
	4				
3	6	9	12	15	18
	8				
	10				
	12				
	14				
	16				

Fill in the missing sections in these sequences.

			X				
			O				
!	X	@	X	!	X	@	X
			O				
			X				
			O				

Tally Charts

Lily has a pack of coloured sweets. She empties them out and looks at how many there are of each different colour. Here are her sweets:

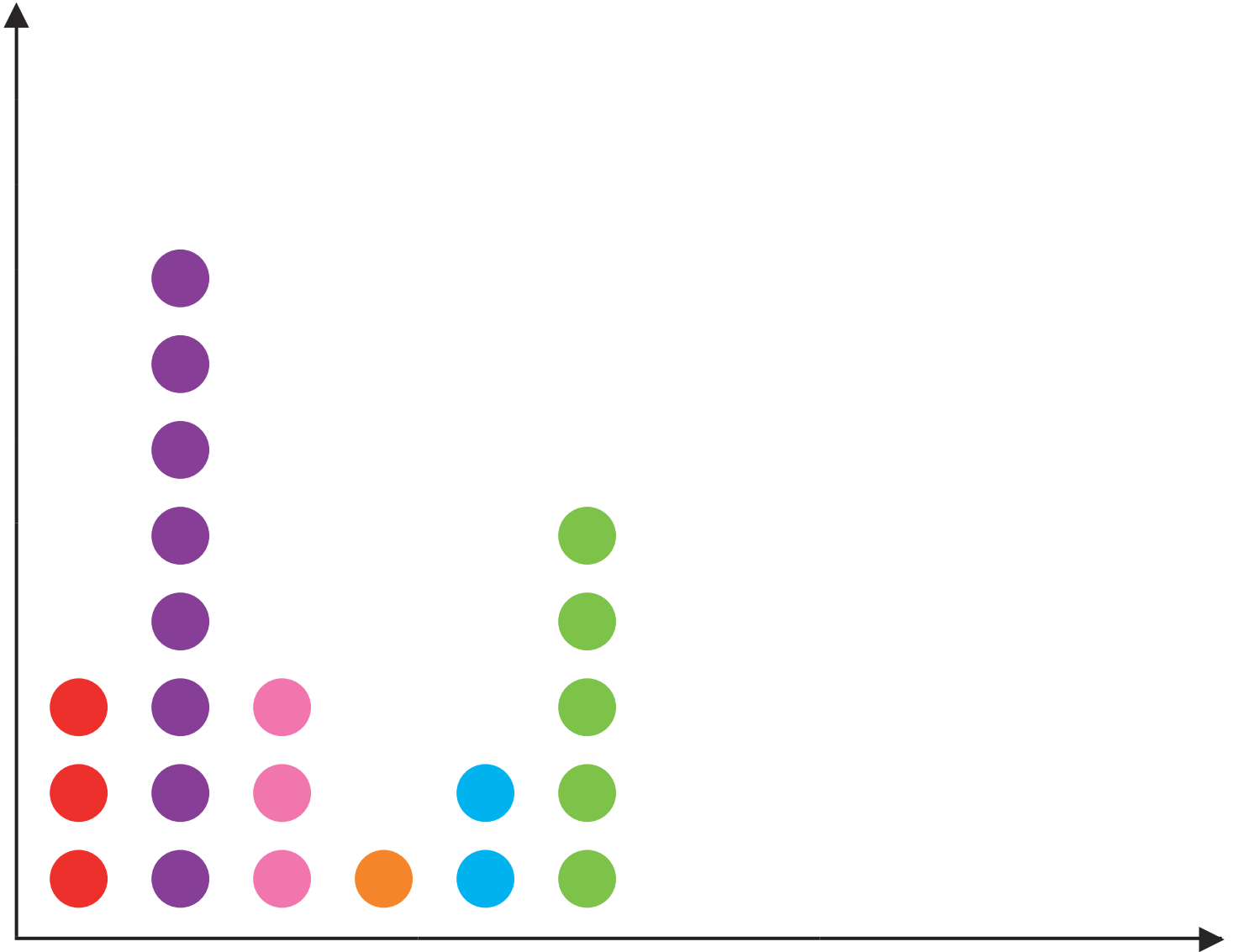


Lily decides to count the colours and record this information in a tally chart. Can you finish the tally chart for her?

Colour	Tally	Number
red	III	3
purple	IIII III	8
pink	III	3
orange	I	1
blue	II	2
green	IIII	5

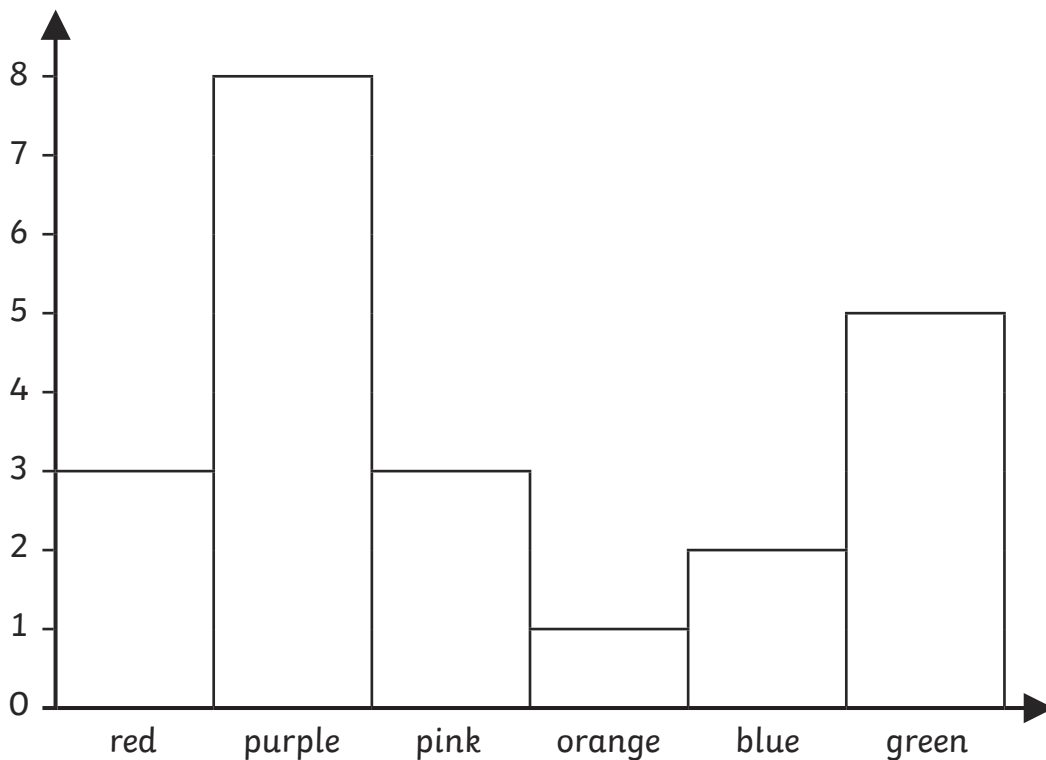
Pictograms

Next, Lily decides to make a pictogram. She has made a start.
Can you finish it?



Block Graphs

Finally, Lily makes a block graph.



Which colour is the most popular? **purple**

Which two colours have the same number of sweets? **red and pink**

How many sweets are there altogether? **22**

How many more purple sweets are there than blue? **6**

Lily eats 3 purple sweets, 2 green sweets and 2 red sweets.

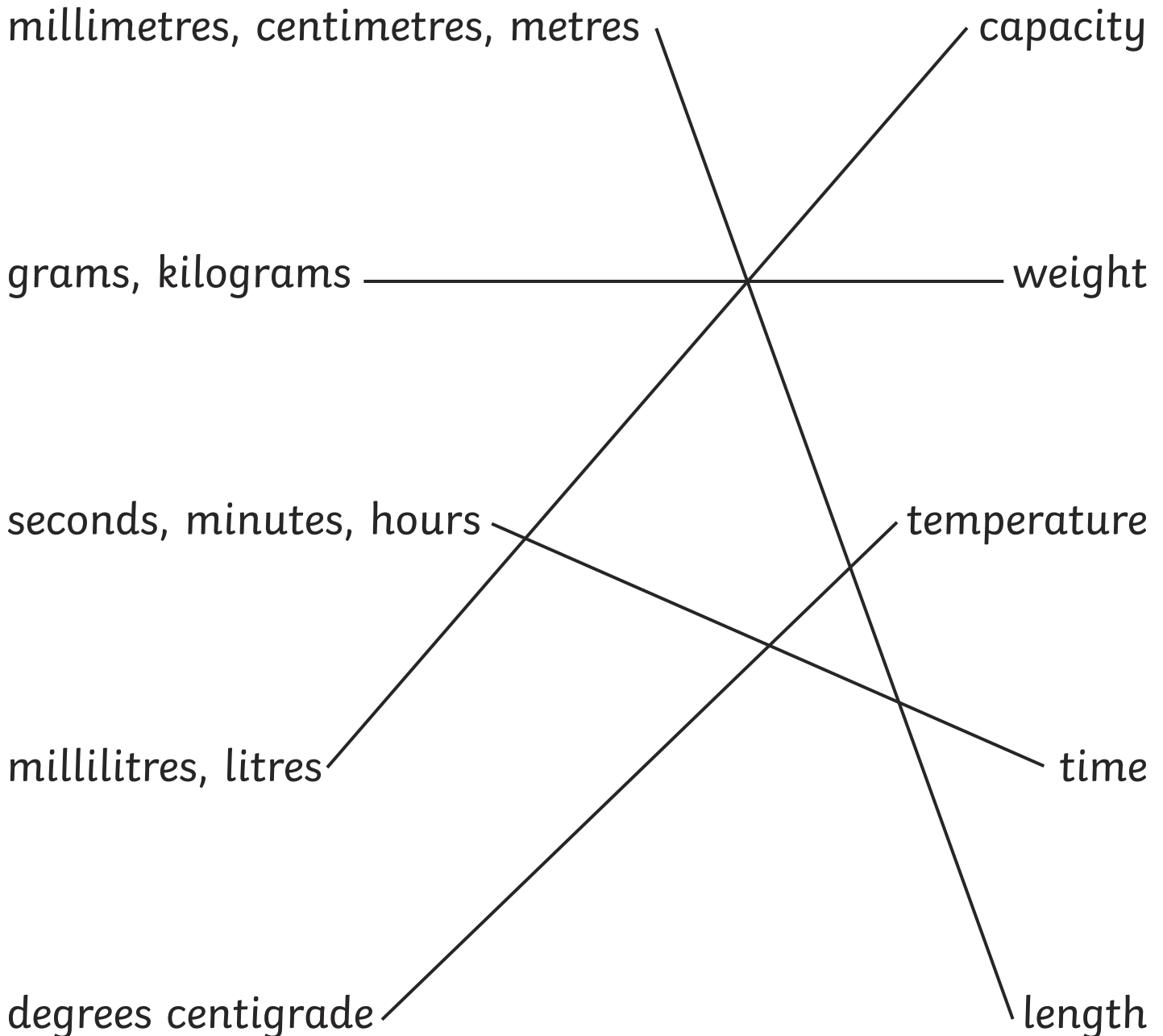
What will the tally chart look like now?

Colour	Tally	Number
red	I	1
purple		5
pink	III	3
orange	I	1
blue	II	2
green	III	3

How many sweets are left? **15**

Units of Measurement

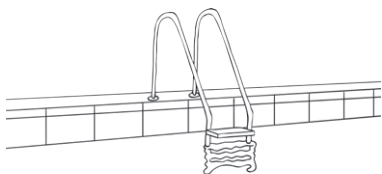

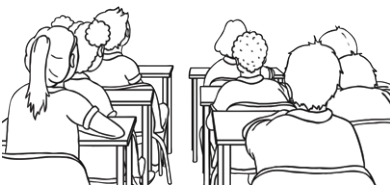


First, let's look at the units we use to measure. Draw lines to match the units to the measures. The first one has been done for you.



To save time, we can write some units of measurement in a shorter way. Can you complete the table?

metres	m
millilitres	ml
centimetres	cm
kilograms	kg
degrees Centigrade	°C
grams	g
millimetres	mm
litres	l

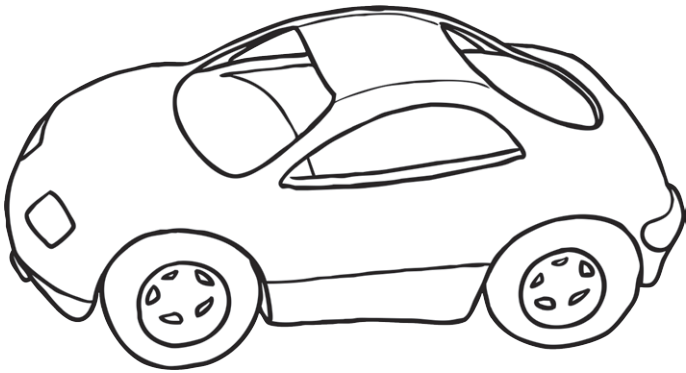
It is important to use the right unit when you are measuring. What unit would you use to measure these things?

the water in a swimming pool		litres
a pencil		centimetres
the temperature in your classroom		degrees Centigrade
the liquid in a cup of tea		millilitres
the distance from your home to Australia		kilometres

Measuring Length

Use a centimetre ruler to measure these objects. Remember that you need to measure from the 'zero' marker (not the end of the ruler).

Don't forget to write your answer using 'cm', e.g. '5cm'.

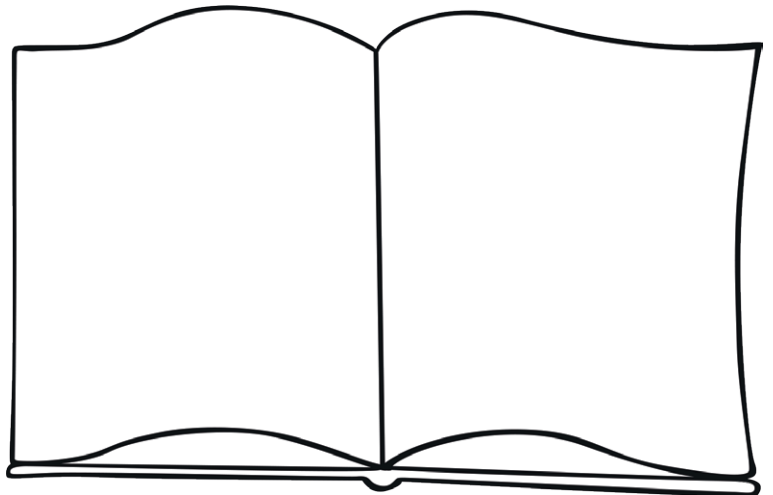


9cm

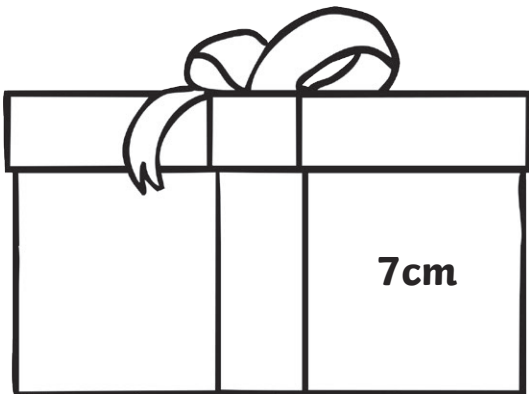
5cm



8cm

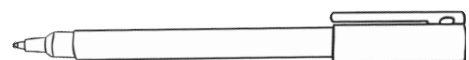


10cm



7cm

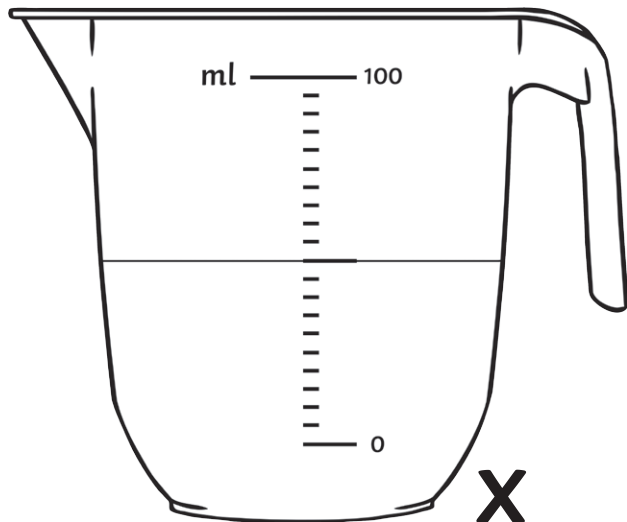
6cm



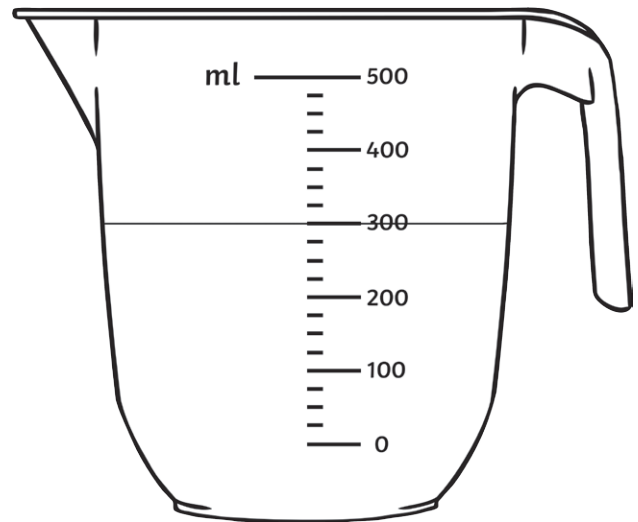
Measuring Capacity

Being able to read a scale is important when you are measuring. Measuring jugs will have a scale on them but they will not show every single millilitre.

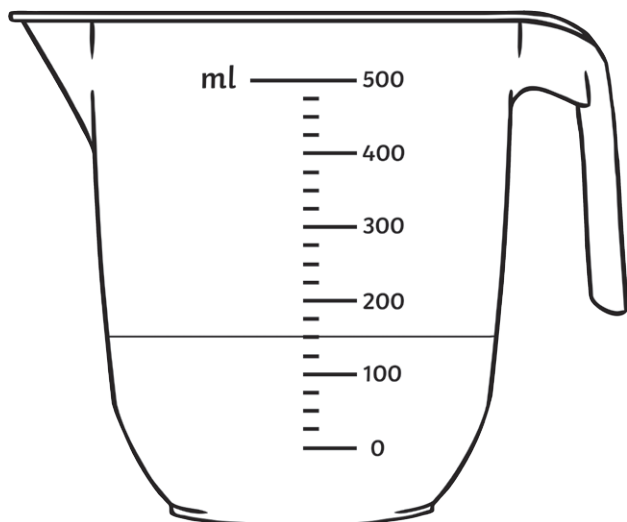
Have a go at reading the scales on these jugs. Don't forget to write your answers in millilitres (ml).



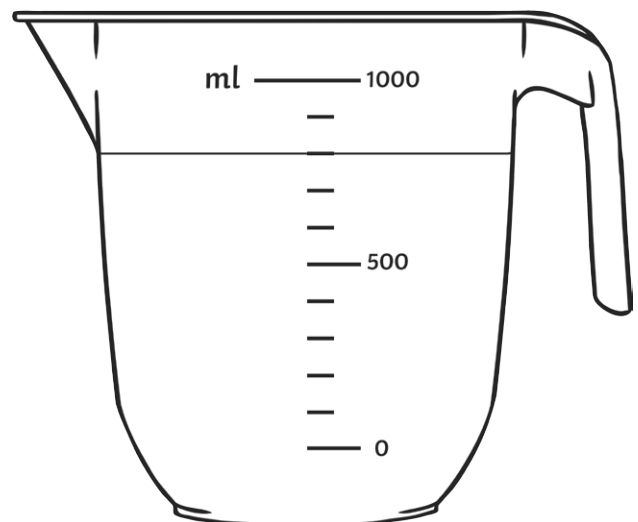
50ml



300ml



150ml



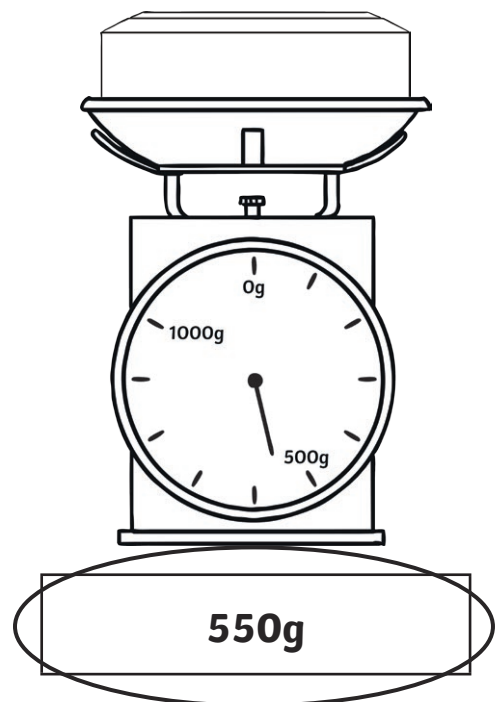
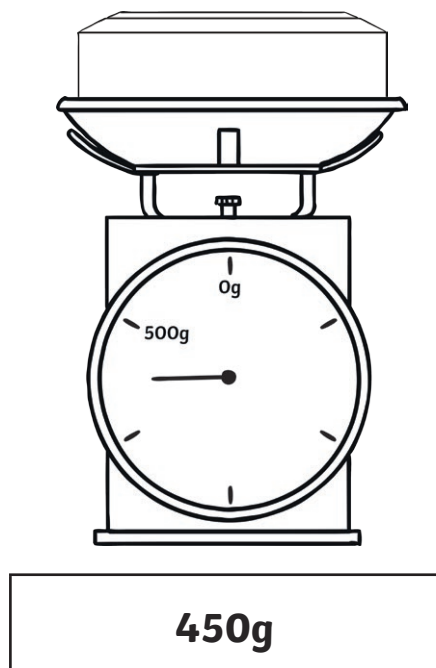
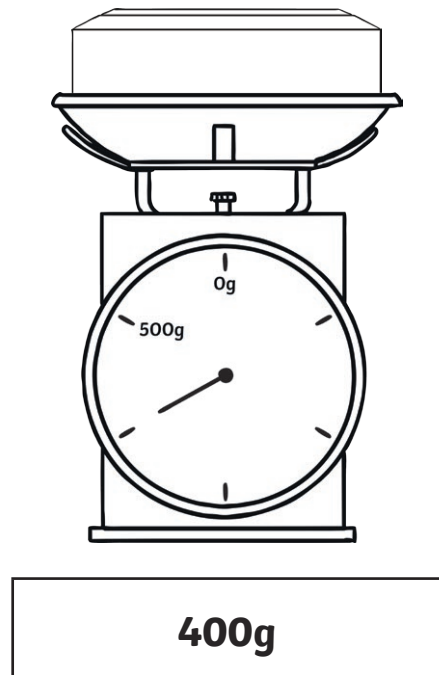
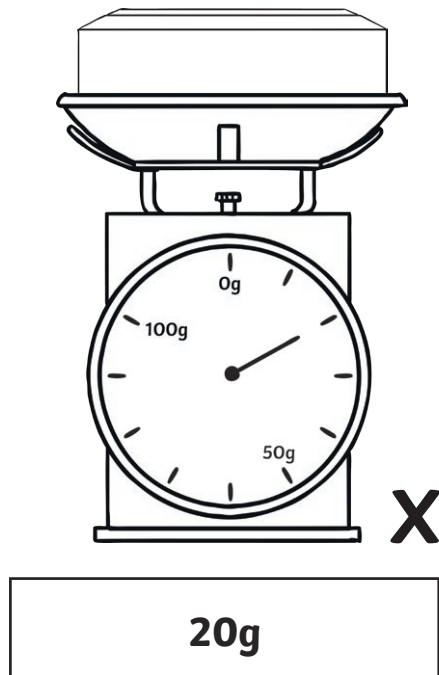
800ml

Draw a circle around the jug holding the most water.

Put a cross next to the jug holding the least water.

Measuring Weight

Being able to read a scale is important when you are measuring. Weighing scales will have a numbered scale on them but they will not show every single gram. Have a go at reading the weights shown by these scales. Don't forget to write your answers in grams (g).

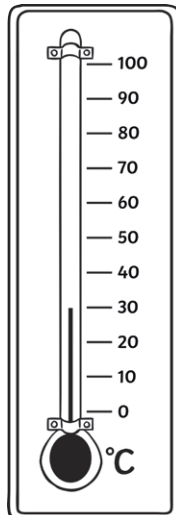


Draw a circle around the scale with the heaviest parcel.

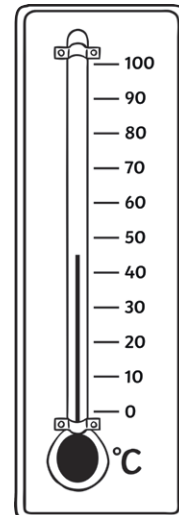
Put a cross next to the scale with the lightest parcel.

Measuring Temperature

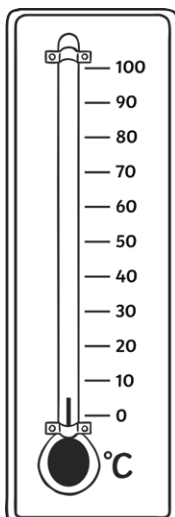
Being able to read a scale is important when you are measuring. Thermometers will have a numbered scale on them but they will not show every single degree. Have a go at reading the temperatures shown by these thermometers. Don't forget to write your answers in degrees Celcius ($^{\circ}\text{C}$).



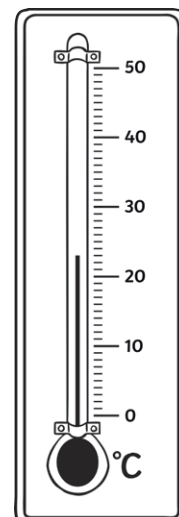
30°C



45°C



5°C



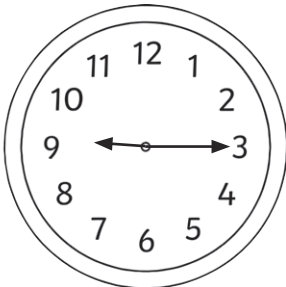
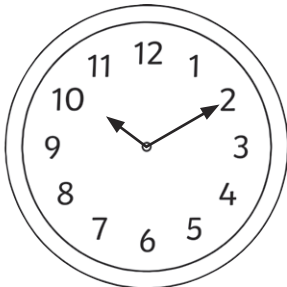

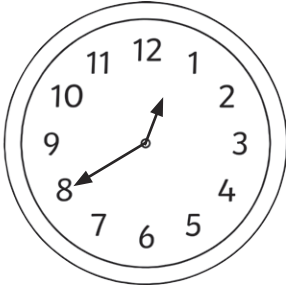
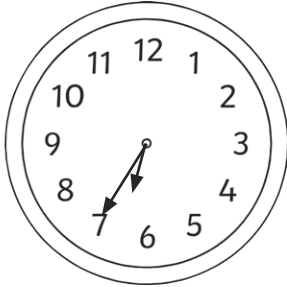
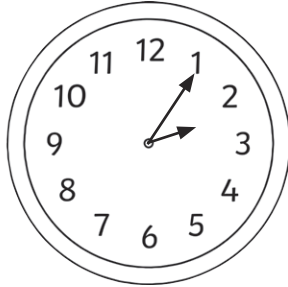
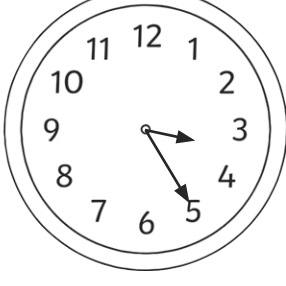
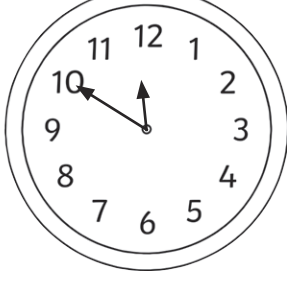
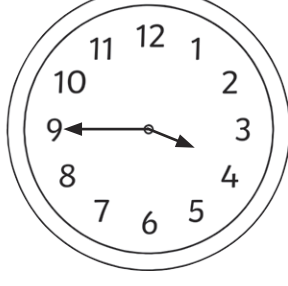
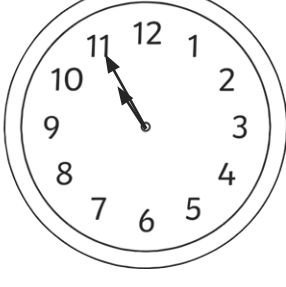
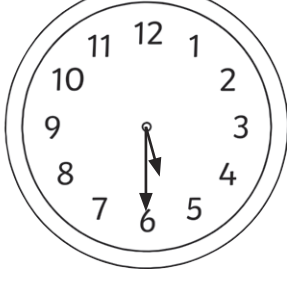
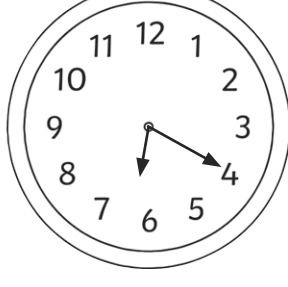
23°C

Draw a circle around the thermometer showing the coldest temperature.

Put a cross next to the thermometer showing the hottest temperature.

What Time Is It? – Times Past and To

Use the clock to help you draw hands on each clock to show the correct time.

		
quarter past 9	10 past 10	25 to 8
		
20 to 1	25 to 7	5 past 2
		
25 past 3	10 to 12	quarter to 4
		
5 to 11	half past 5	20 past 6

Challenge: Choose four of the times shown above. What might you be doing at these times?