Ma

KEY STAGE 2

LEVELS 3–5

2012

Mathematics test

Test A

Calculator **not** allowed

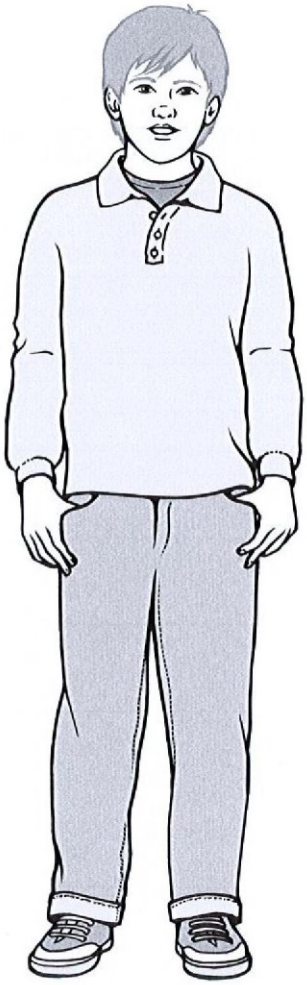
First name	
Middle name	
Last name	
School	
DfE number	

For marker's use only

Page	Marks
5	
7	
9	
11	
13	
15	
17	
19	
21	
Total	

These three children appear in some of the questions in this test.

Kirsty



Seb

Mina

Instructions

You **may not** use a calculator to answer any questions in this test.

Work as quickly and as carefully as you can.

You have **45 minutes** for this test.

If you cannot do one of the questions, **go on to the next one**.

You can come back to it later, if you have time.

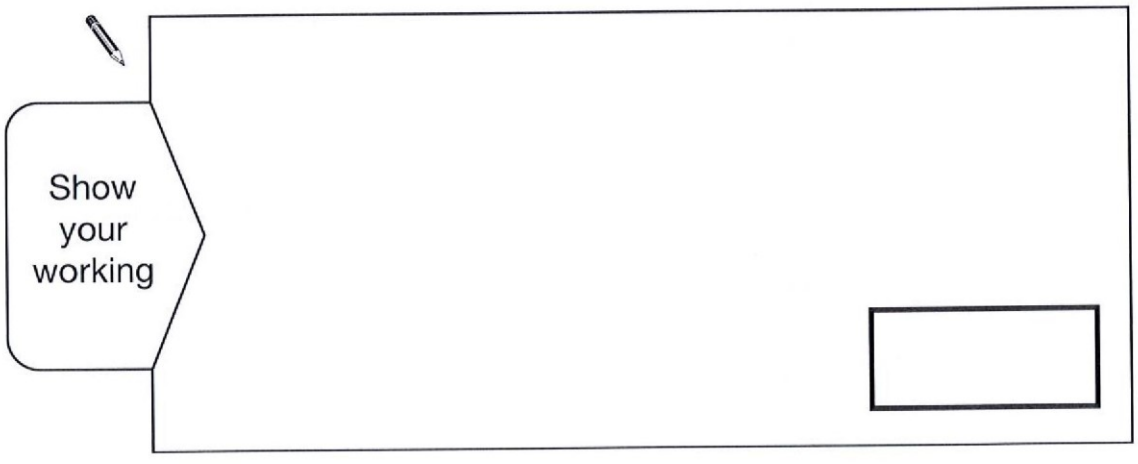
If you finish before the end, **go back and check your work**.

Follow the instructions for each question carefully.

This shows where you need to put the answer.

If you need to do working out, you can use any space on a page.

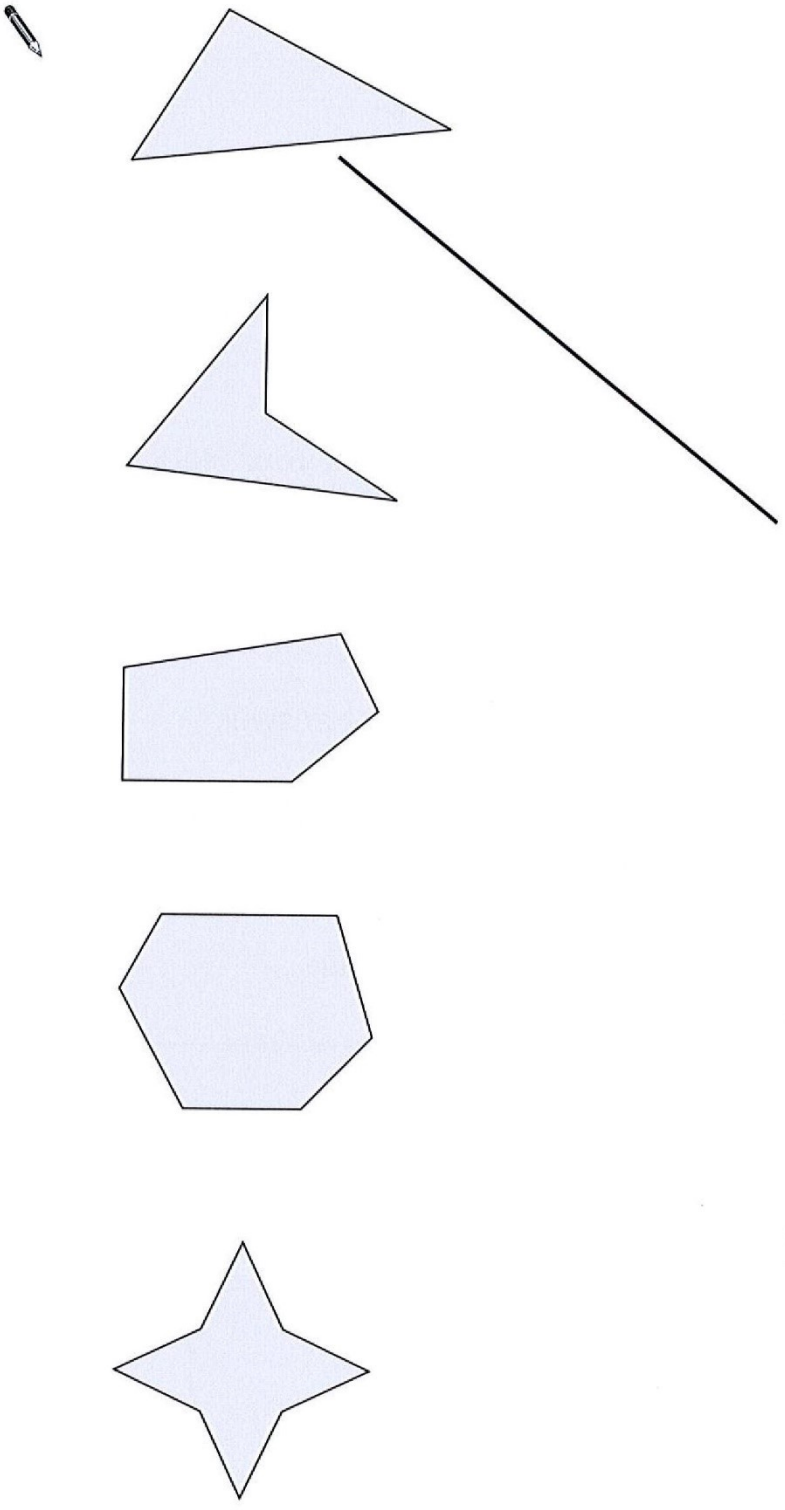
Some questions have an answer box like this:



For these questions you may get a mark for showing your working.

1 Match each shape to the correct name.

One has been done for you.



pentagon

triangle

octagon

quadrilateral

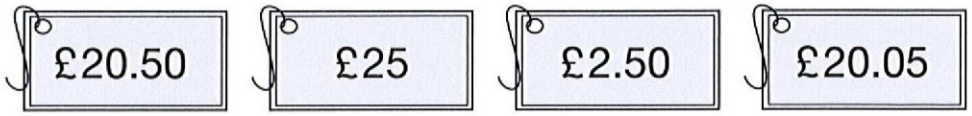
hexagon

1i _____

1ii _____

2 marks

2 Write these prices in order, starting with the **smallest**.



£ | £ | £ | £

smallest

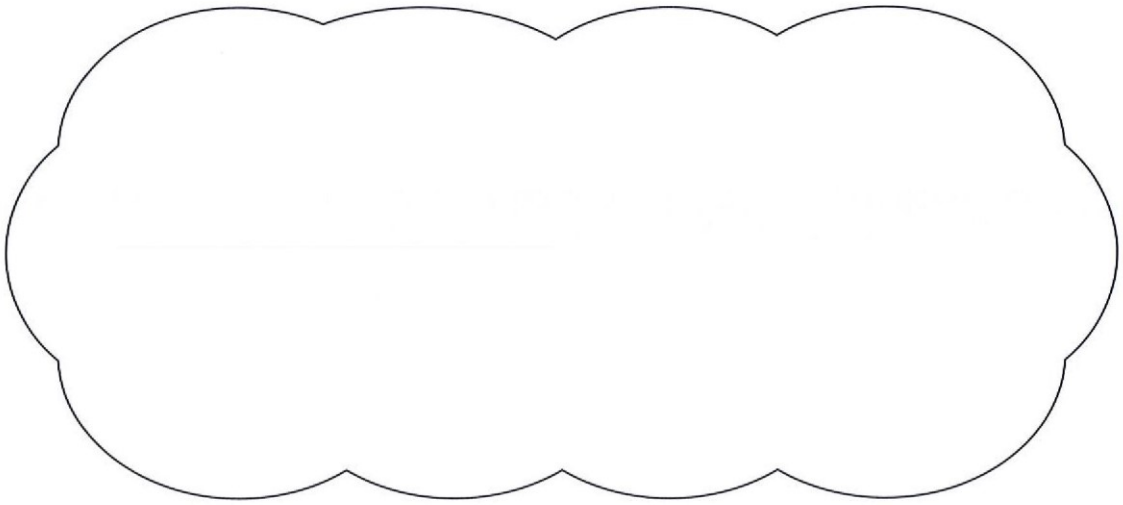
2

1 mark

3 Circle the number which is **closer to 1000**

996 1006

Explain how you know.



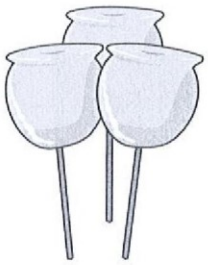
3

1 mark

Total out of 4 ____

4 Kirsty, Seb and Mina made toffee apples to sell at the school fair.

They made **80** toffee apples altogether.



Kirsty sold **12** toffee apples.

Seb sold **25** toffee apples.

Mina sold **17** toffee apples.

How many toffee apples were left?

Show your working

4ai

4aii

2 marks

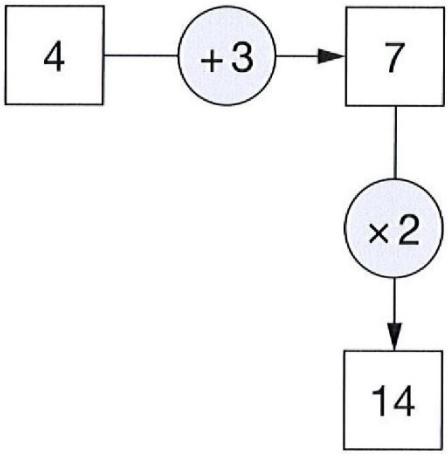
Kirsty sold her 12 toffee apples for 50p each.

How much money did she collect?

4b

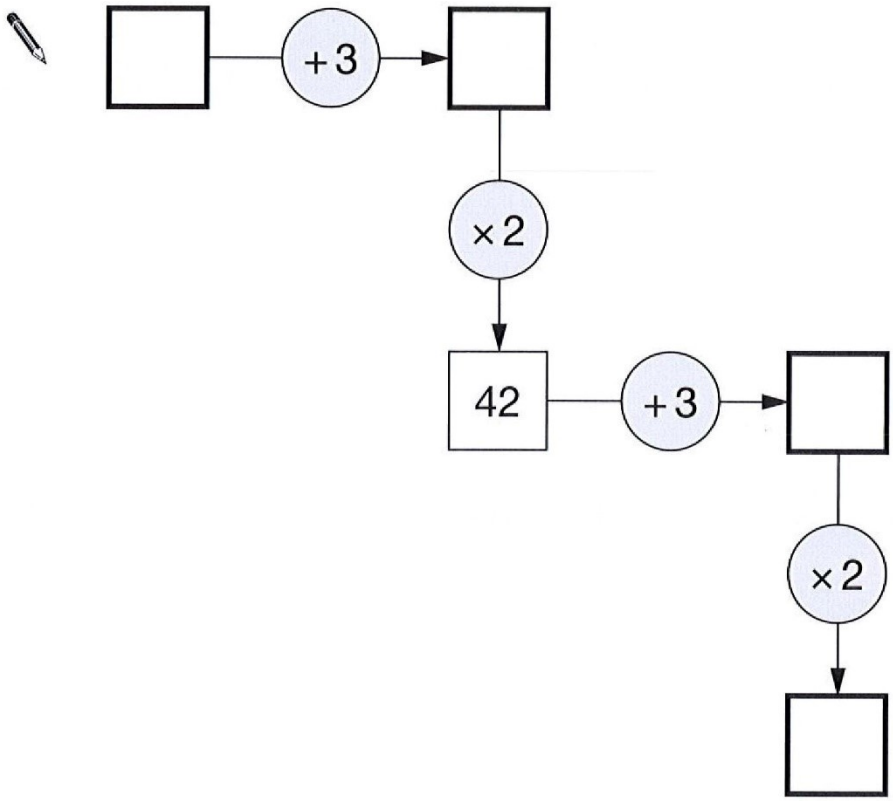
1 mark

5 Here is a number machine.



Here is another number machine.

Write the four missing numbers.



5i _____

5ii _____

2 marks

Total out of 5 _____

6 Kirsty, Seb, Mina, Jack and Donna belong to a sports club.

This table shows the sports they do in one week.

	Mon	Tues	Wed	Thurs	Fri
Swimming	Kirsty Jack		Jack	Kirsty Donna	Donna
Jogging	Seb	Mina			Mina Kirsty Jack
Cycling		Kirsty Donna		Jack	Seb

How many of the children do **not** go swimming?

6a

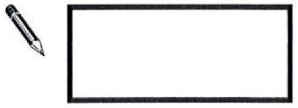
1 mark

Write the names of all the children who go **both** jogging **and** cycling.

6b

1 mark

7 Calculate **507 – 291**



7

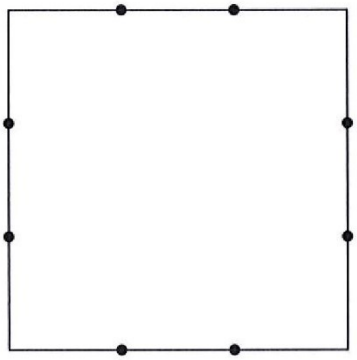
1 mark

8 This square has two dots on each side.

The dots are equally spaced.

Join two dots to divide the square into **two equal parts**.

Use a ruler.

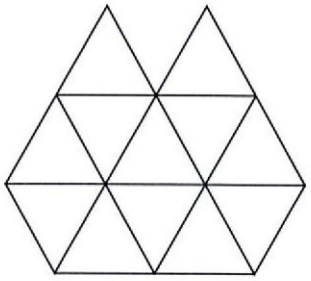


8

1 mark

Total out of 4 _____

9 Shade $\frac{1}{4}$ of this shape.



9

1 mark

10 Complete this table to show the numbers rounded to the **nearest 100**

One has been done for you.

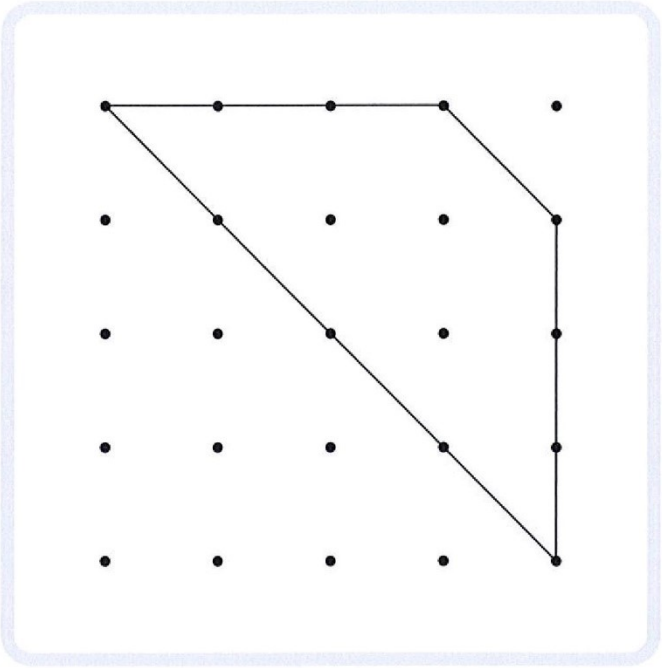
	rounded to the nearest hundred
316	300
3162	
31628	
316281	

10i

10ii

2 marks

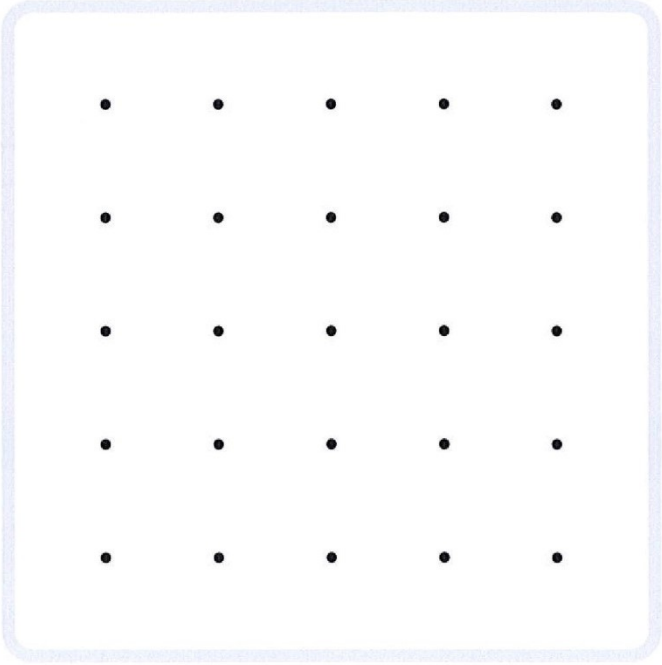
11 Kirsty draws this shape on a grid.



She turns her grid one quarter turn clockwise.

Draw the shape in its new position after the turn.

Use a ruler.



11

1 mark

Total out of 4 _____

12 These are the prices of cheese in a shop.

Cheddar cheese 82p for 100 grams
Edam cheese 66p for 100 grams
Cottage cheese 45p for 100 grams

Mina buys **200g** of Cheddar cheese and **150g** of Edam cheese.

How much does she pay altogether?

Show your working

£

12ai

12aii

2 marks

Seb buys some cottage cheese for £1.35

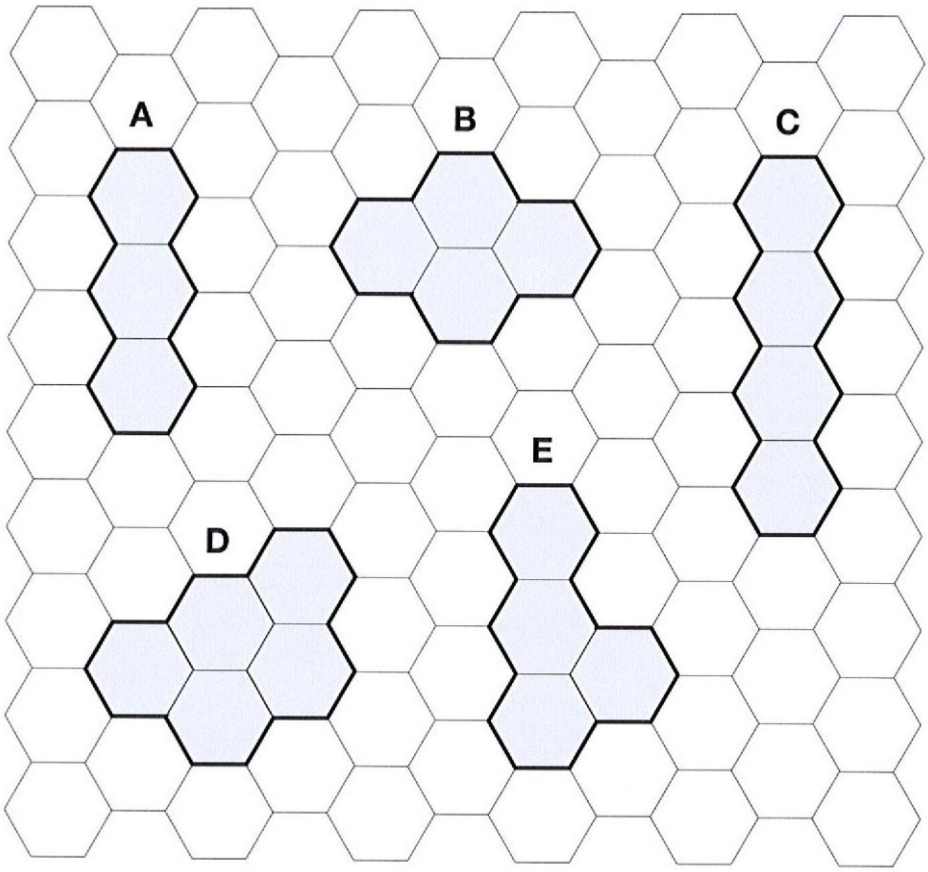
How many grams of cottage cheese does he get?

g

12b

1 mark

13 Here are five shapes on a regular grid.



Which shape has the longest **perimeter**?

13a

_____

1 mark

Which shape has only one **line of symmetry**?

13b

_____

1 mark

Total out of 5 _____

14 Calculate **144 ÷ 6**

14

1 mark

15 These are all times on the same morning.

A 7:56 am

B quarter to eight

C six minutes to eight

D half past seven

Write the letters for the times in order, starting with the earliest.

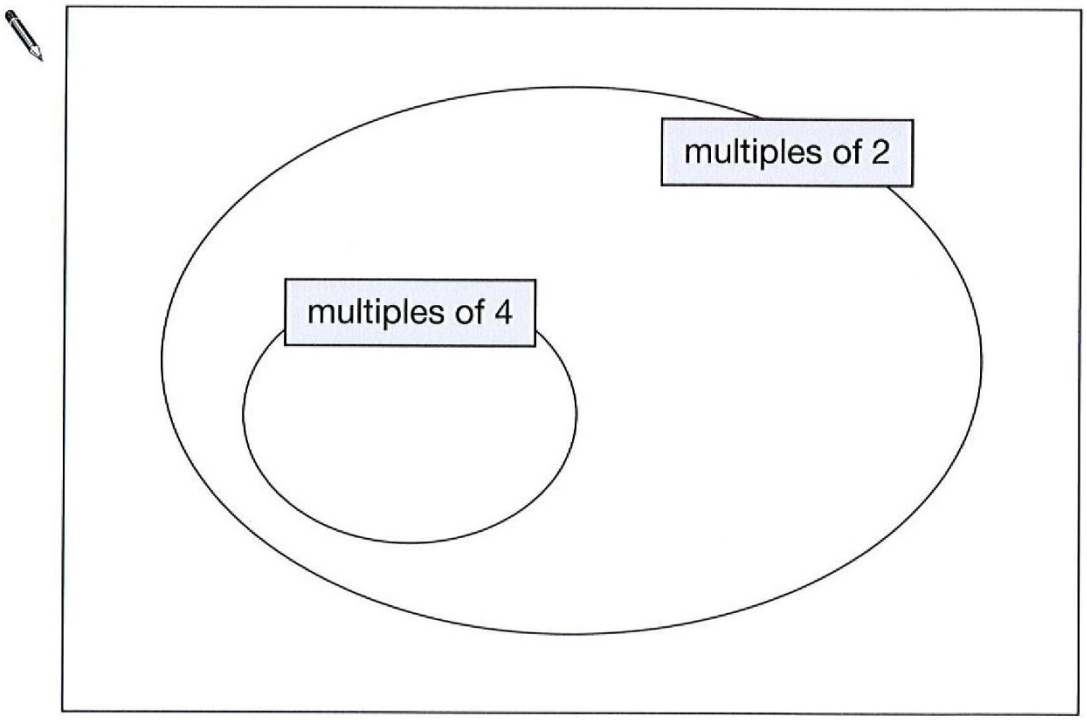
15

1 mark

16 Here is a Venn diagram for sorting numbers.

Write each number in its correct place on the diagram.

10 11 12 13



16i _____

16ii _____

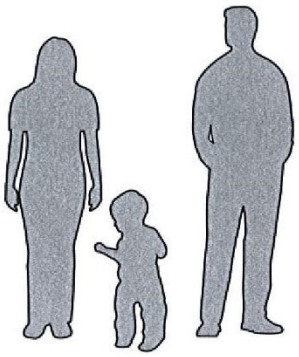
2 marks

Total out of 4 _____

17 Freddie is half as tall as his mother.

Freddie is one metre shorter than his father.

Freddie's father is 180 centimetres tall.



How many centimetres tall is Freddie's mother?

cm

17

1 mark

18 Calculate **560 × 28**

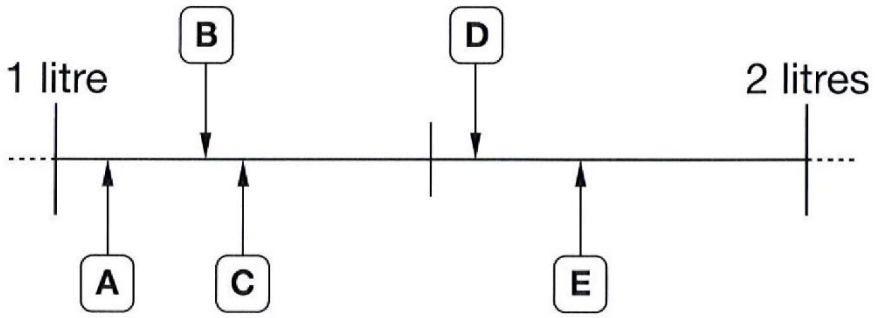
Show your working

18i

18ii

2 marks

19 Here are five letters on a scale.



Match each letter to one of the capacities in the list below.

$1200\,ml$	☐
$1.7\,l$	☐
$1\frac{1}{4}\,l$	☐
$1560\,ml$	☐
$1.07\,l$	☐

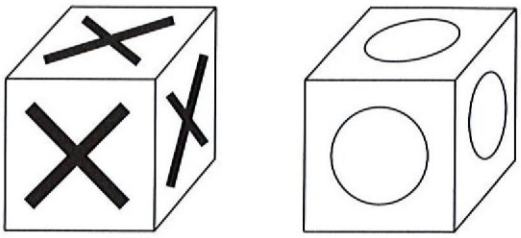
19i _____

19ii _____

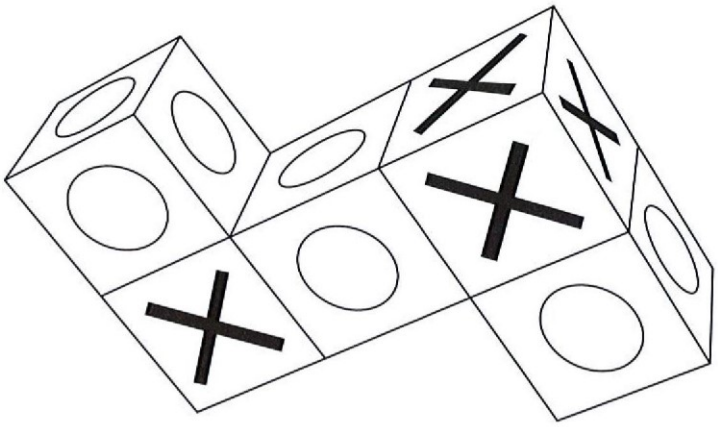
2 marks

Total out of 5 _____

20 Seb has some cubes with a cross on each face and some cubes with a circle on each face.



He sticks five cubes together to make this shape.



How many crosses and how many circles are there on the **outside** of the shape?

Number of crosses ☐ 20a

1 mark

Number of circles ☐ 20b

1 mark

21

Mina has **5 more** marbles than Kirsty.

Kirsty has **2 more** marbles than Seb.

Altogether they have **30** marbles.

How many marbles does each child have?

Show your working

Mina ☐ Kirsty ☐ Seb ☐

21i _____

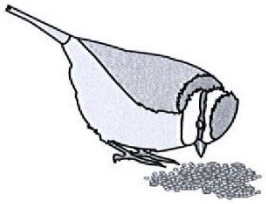
21ii _____

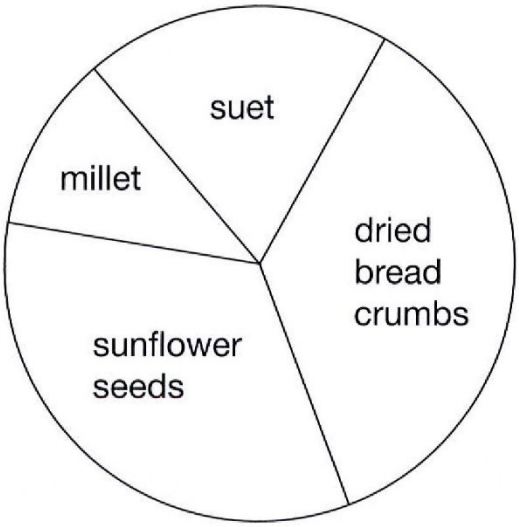
2 marks

Total out of 4 _____

22

This pie chart shows the ingredients to make a food mixture for wild birds.





Estimate the **percentage** of mixture that is suet.

% 22a

1 mark

Mina uses 100 grams of millet in the mixture.

Estimate how many grams of sunflower seeds she should use.

g 22b

1 mark

23 Write these in order of size, starting with the smallest.

$\frac{3}{4}$ 0.34 0.7 43%

smallest

23

1 mark

24 In a class, 18 of the children are girls.

A quarter of the children in the class are boys.

Altogether, how many children are there in the class?

Show your working

24i

24ii

2 marks

Total out of 5

End of test

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STA/12/5588 (Pupil pack)
STA/12/5581 (Mark schemes pack)