MATHEMATICS

KEY STAGE 2 2002

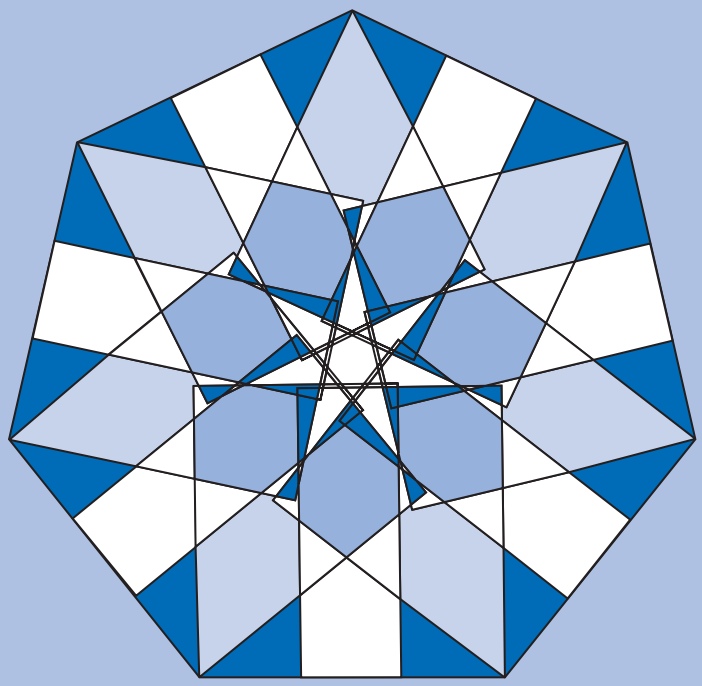
TEST B

LEVELS 3–5

CALCULATOR ALLOWED

PAGE	MARKS
5	
7	
9	
11	
13	
15	
17	
19	
TOTAL	

BORDERLINE CHECK	



First Name

Last Name

School

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Instructions

You **may** 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.

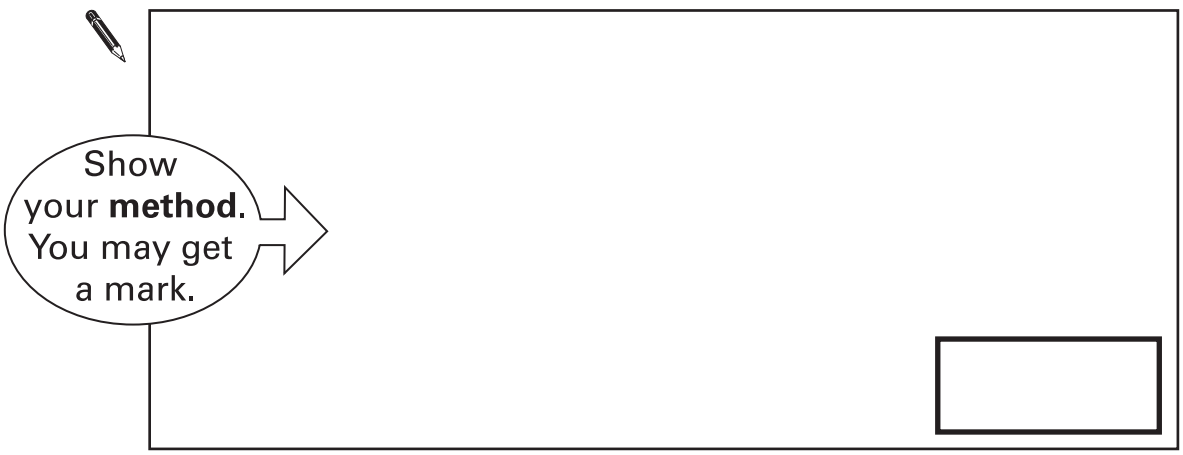
If you finish before the end, **go back and check your work**.

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:

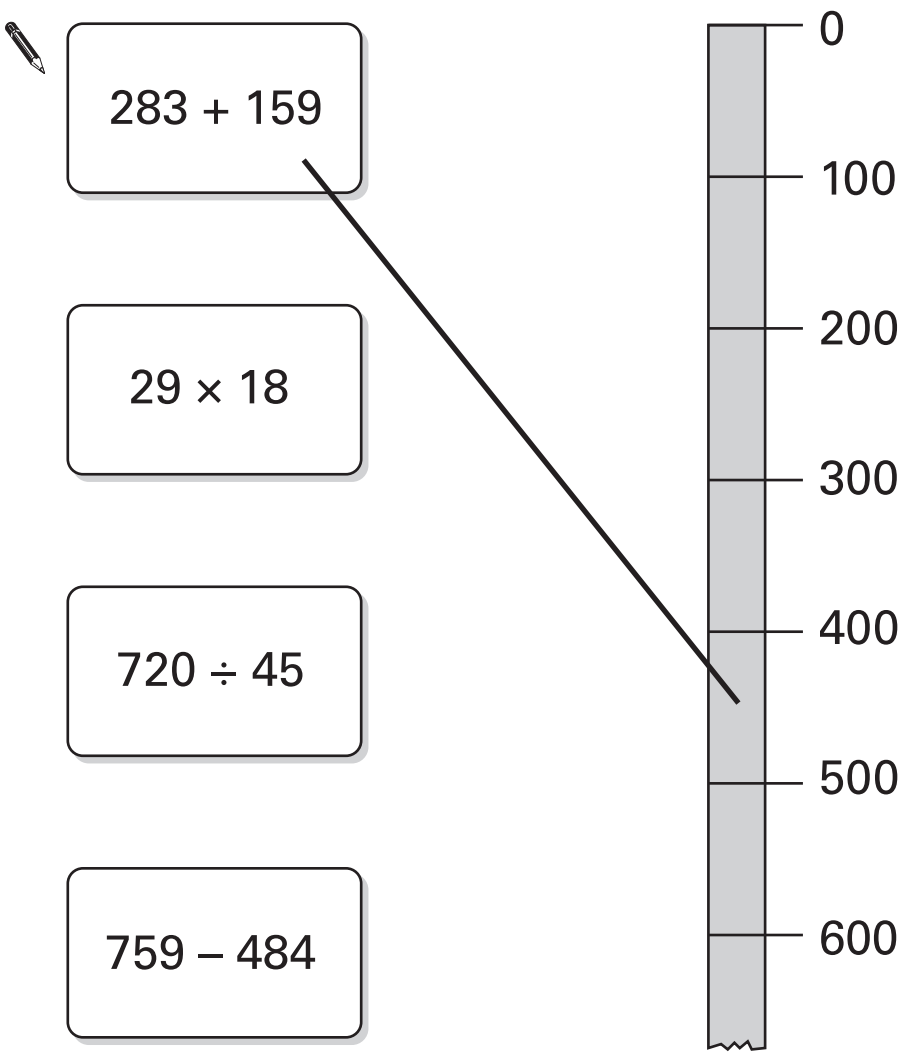


For these questions you may get a mark for showing your method.

1 Draw a line from each card to the correct part of the number line.

One has been done for you.

You may use a calculator.



1a
1 mark

1b
1 mark

1c
1 mark

2 Write in the missing numbers.

22 × ☐ = 660

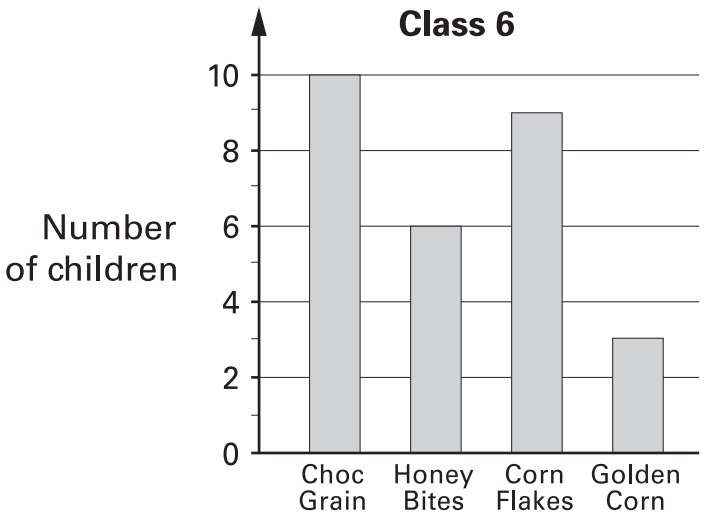
☐ – 75 = 109

2a
1 mark

2b
1 mark

3 Tom does a survey of children's favourite breakfast cereals.

These are the results for Class 6

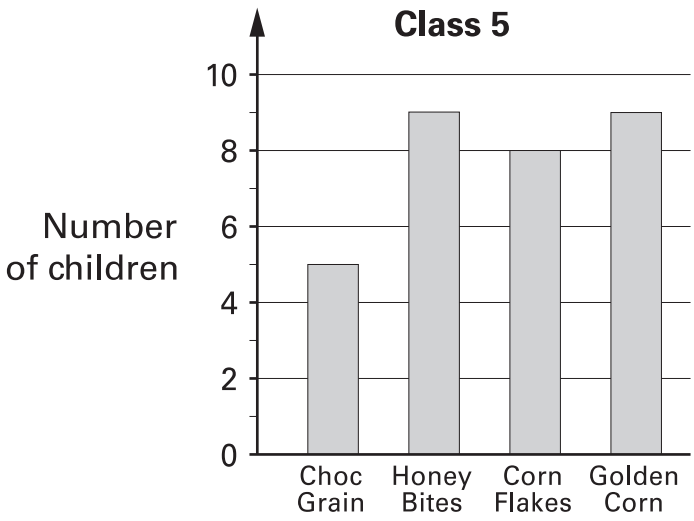


How many **more** children in Class 6 prefer **Choc Grain** than **Golden Corn**?

3a

1 mark

These are the results for Class 5



How many children in **both** classes like **Honey Bites** best?

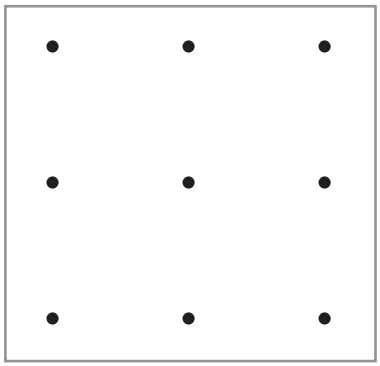
3b

1 mark

Total

4 On the grid join dots to make a triangle which does **not** have a **right angle**.

Use a ruler.

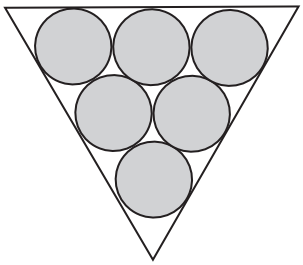


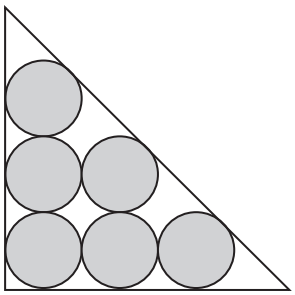
4

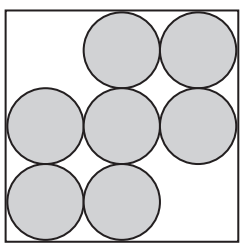
1 mark

5 Use a ruler to draw **one** line of symmetry on **each** of these designs.

You may use a mirror or tracing paper.







5

2 marks

6

A box of four balls costs **£2.96**

How much does each ball cost?

6a
1 mark

Dean and Alex buy **3 boxes** of balls between them.

Dean pays **£4.50**

How much must Alex pay?

Show your **method**. You may get a mark.

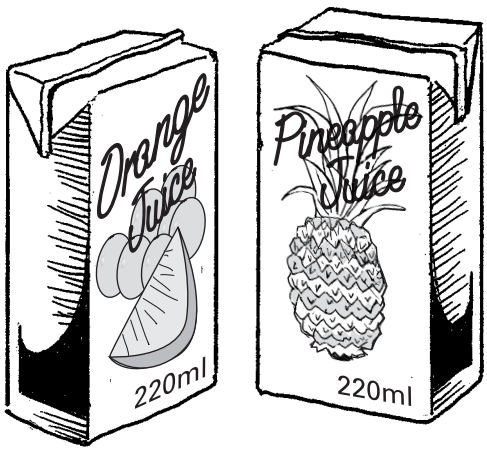
£

6b
2 marks

Total

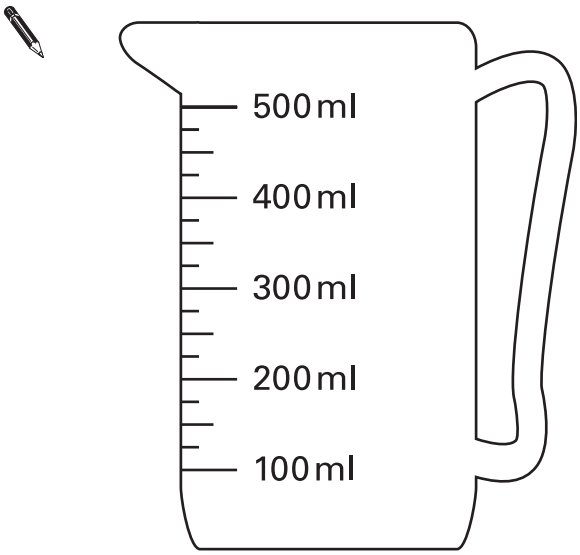
7 Mina has two cartons of juice.

Each carton contains **220ml**.



She empties them both into this jug.

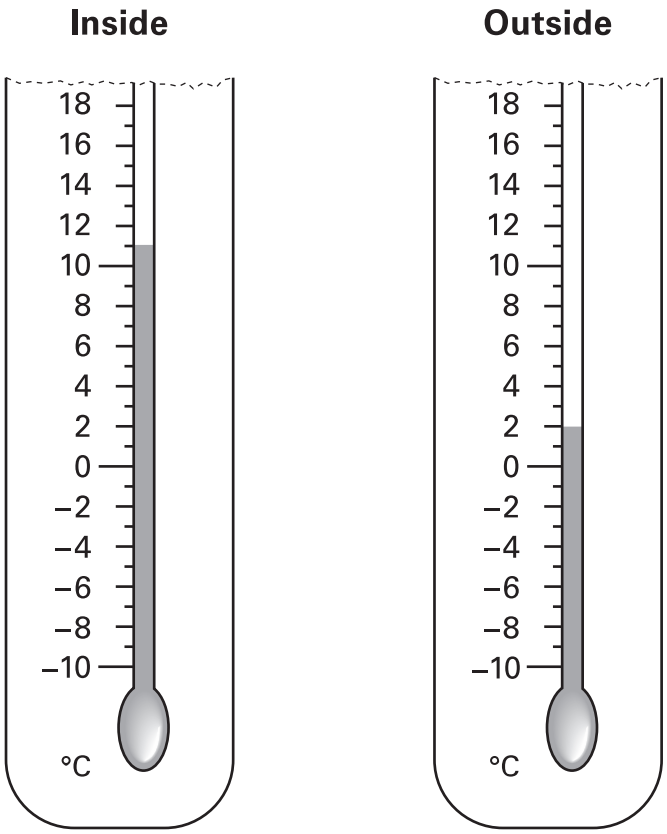
Draw an arrow (→) to show the level of the mixture in the jug.



7

1 mark

8 Two thermometers show the temperature inside and outside a greenhouse on a day in January.



How many degrees **warmer** was it inside the greenhouse than outside?

°C

8a

1 mark

Later the temperatures were

inside	outside
−1°C	−8°C

What is the difference between these two temperatures?

°C

8b

1 mark

9 Jemma thinks of a number.

She says,

'Add 3 to my number and then multiply the result by 5
The answer is 35'

What is Jemma's number?

9a
1 mark

Riaz thinks of a number.

He says,

'Halve my number and then add 17
The answer is 23'

What is Riaz's number?

9b
1 mark

10 Write in the missing number.

$$32.45 \times \square = 253.11$$

10
1 mark

11

185 people go to the school concert.

They pay **£1.35** each.

How much ticket money is collected?

£

11a

1 mark

Programmes cost **15p** each.

Selling programmes raises **£12.30**

How many **programmes** are sold?

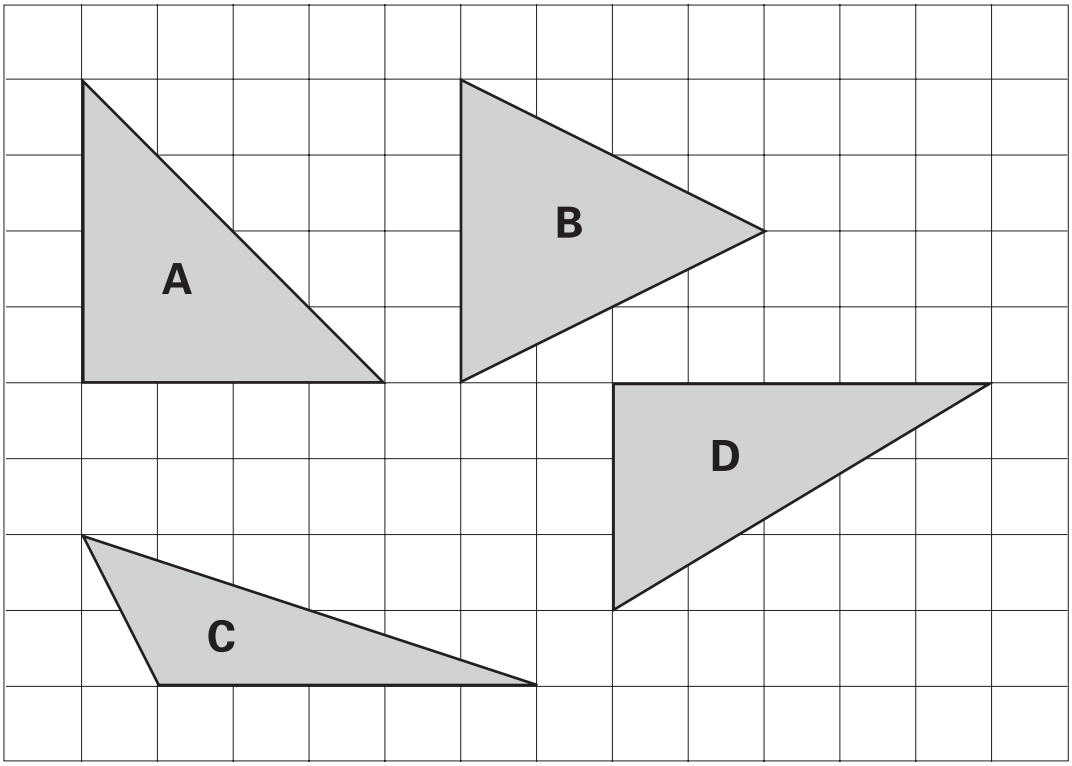
Show your **method**. You may get a mark.

11b

2 marks

Total

12 Here are four triangles drawn on a square grid.



Write the letter for each triangle in the correct region of the sorting diagram.

One has been done for you.

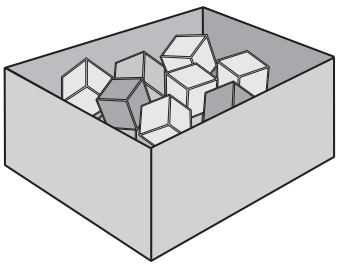
	has a **right** angle	has an **obtuse** angle	has 3 **acute** angles
is isosceles	**A**		
is **not** isosceles			

12

2 marks

13 There are 24 coloured cubes in a box.

Three-quarters of the cubes are red,
four of the cubes are blue
and the rest are green.



How many **green** cubes are in the box?

Show your **method**. You may get a mark.

13a
2 marks

One more **blue** cube is put into the box.

What fraction of the cubes in the box are **blue** now?

13b
1 mark

Total

14

The table shows the cost of coach tickets to different cities.

		Hull	York	Leeds
Adult	single	£12.50	£15.60	£10.25
	return	£23.75	£28.50	£19.30
Child	single	£8.50	£10.80	£8.25
	return	£14.90	£17.90	£14.75

What is the total cost for a **return** journey to York for one adult and two children?

£ 14a

1 mark

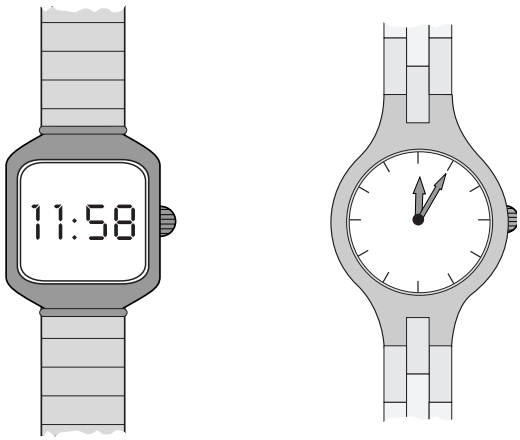
How much **more** does it cost for two adults to make a **single** journey to Hull than to Leeds?

£ 14b

1 mark

15 One of these watches is **3 minutes fast**.

The other watch is **4 minutes slow**.



What is the correct time?

15

1 mark

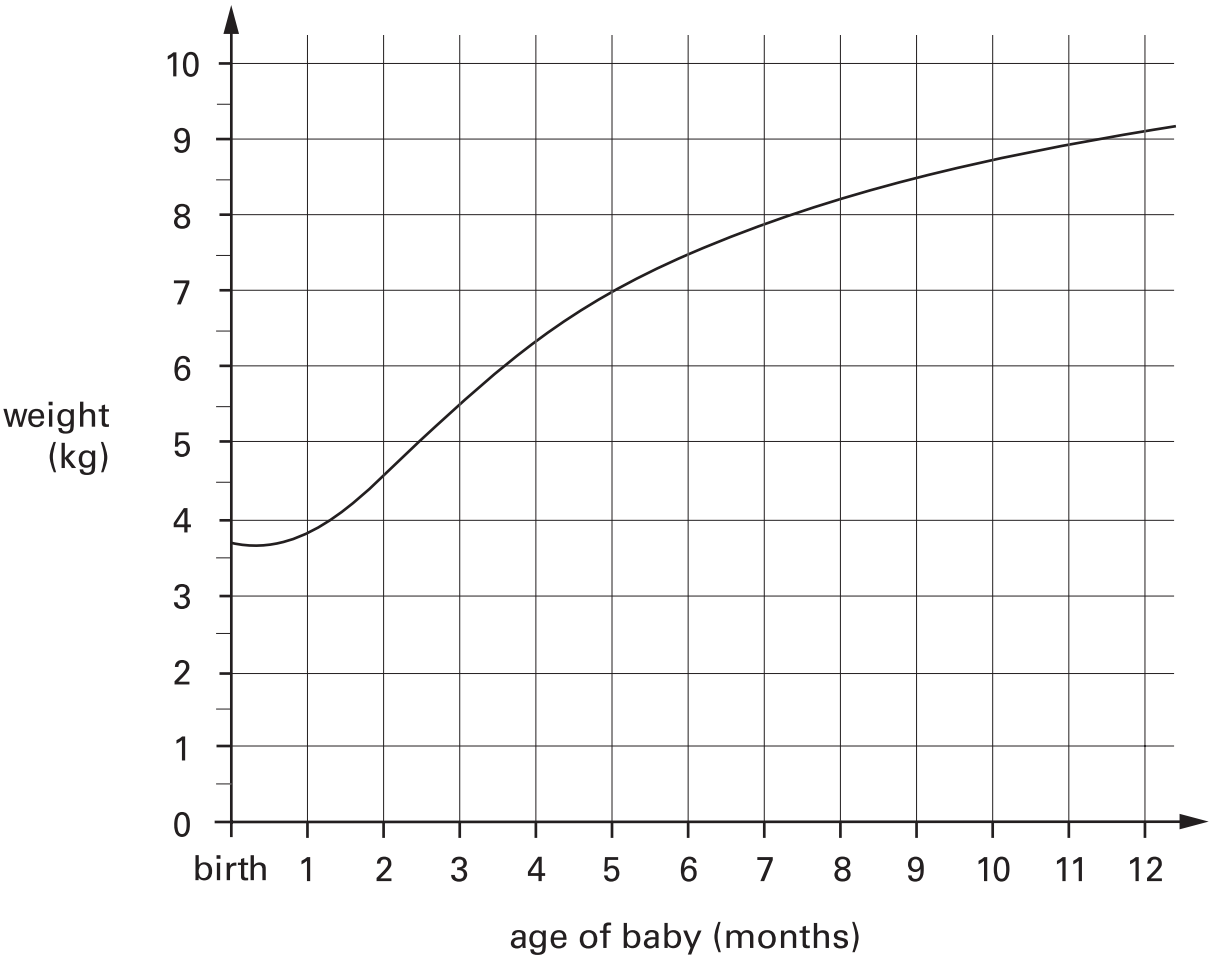
16 Use a calculator to work out **49.3 × (2.06 + 8.5)**

16

1 mark

Total

17 This graph shows how the weight of a baby changed over twelve months.



From the graph, what was the weight of the baby at **10 months**?

kg

17a

1 mark

How much **more** did the baby weigh at 5 months than at birth?

kg

17b

1 mark

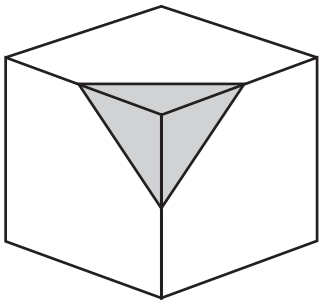
18 Circle the number **closest** in value to **0.1**

0.01 0.05 0.11 0.2 0.9

18

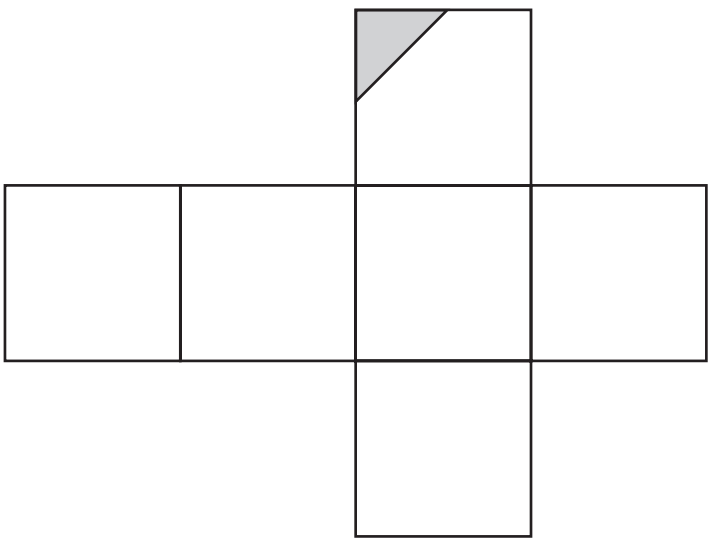
1 mark

19 A cube has shaded triangles on three of its faces.



Here is the net of the cube.

Draw in the two missing shaded triangles.



19

1 mark

Total

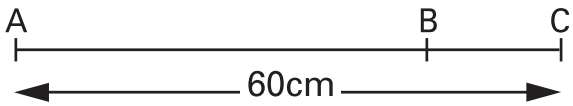
20 Write in what the missing numbers could be.

170 + ☐ = 220 − ☐

20

1 mark

21



Not drawn to scale

The distance from **A to B** is three times as far as from **B to C**.

The distance from **A to C** is **60 centimetres**.

Calculate the distance from **A to B**.

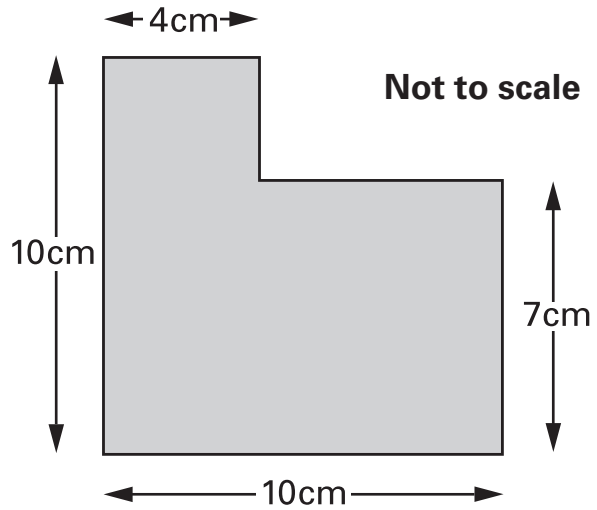
Show your **method.** You may get a mark.

cm

21

2 marks

22 What is the **area** of this shape?



Show your **method.** You may get a mark.

cm²

22

2 marks

Total

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