MATHEMATICS

YEAR 5

TEST 5B

LEVELS 3–5

CALCULATOR ALLOWED

Total marks

Name	
Class	
School	
Date	

Luke

Emma

Reshma

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.

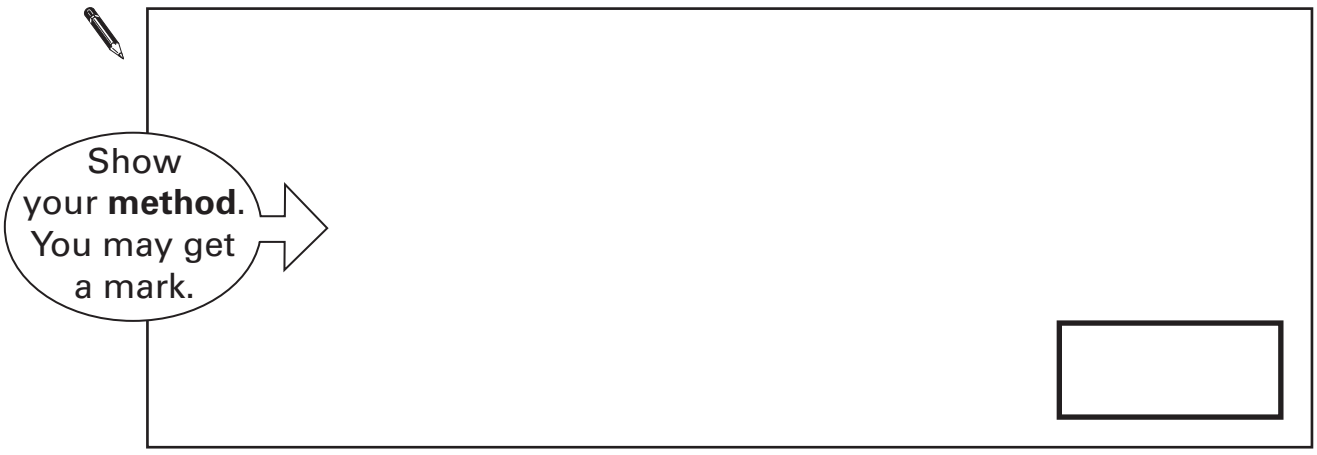
If you finish before the end, **go back and check your work**.

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 Write in the missing numbers.

150 × ☐ = 600

1a

1 mark

☐ − 100 = 150

1b

1 mark

2 Here are four digit cards.

3	4	5	6

Use three of them to make this correct.

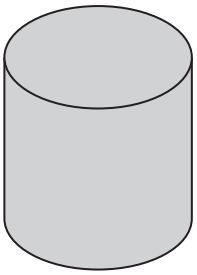
☐☐ − ☐ = 47

2

1 mark

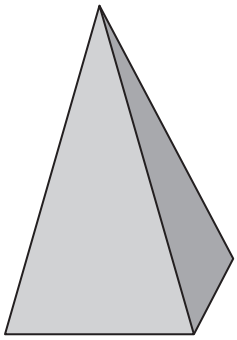
3 Match each picture of a shape to its name.

One has been done for you.



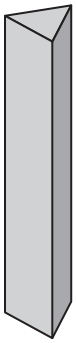
cube

cuboid



cylinder

pyramid



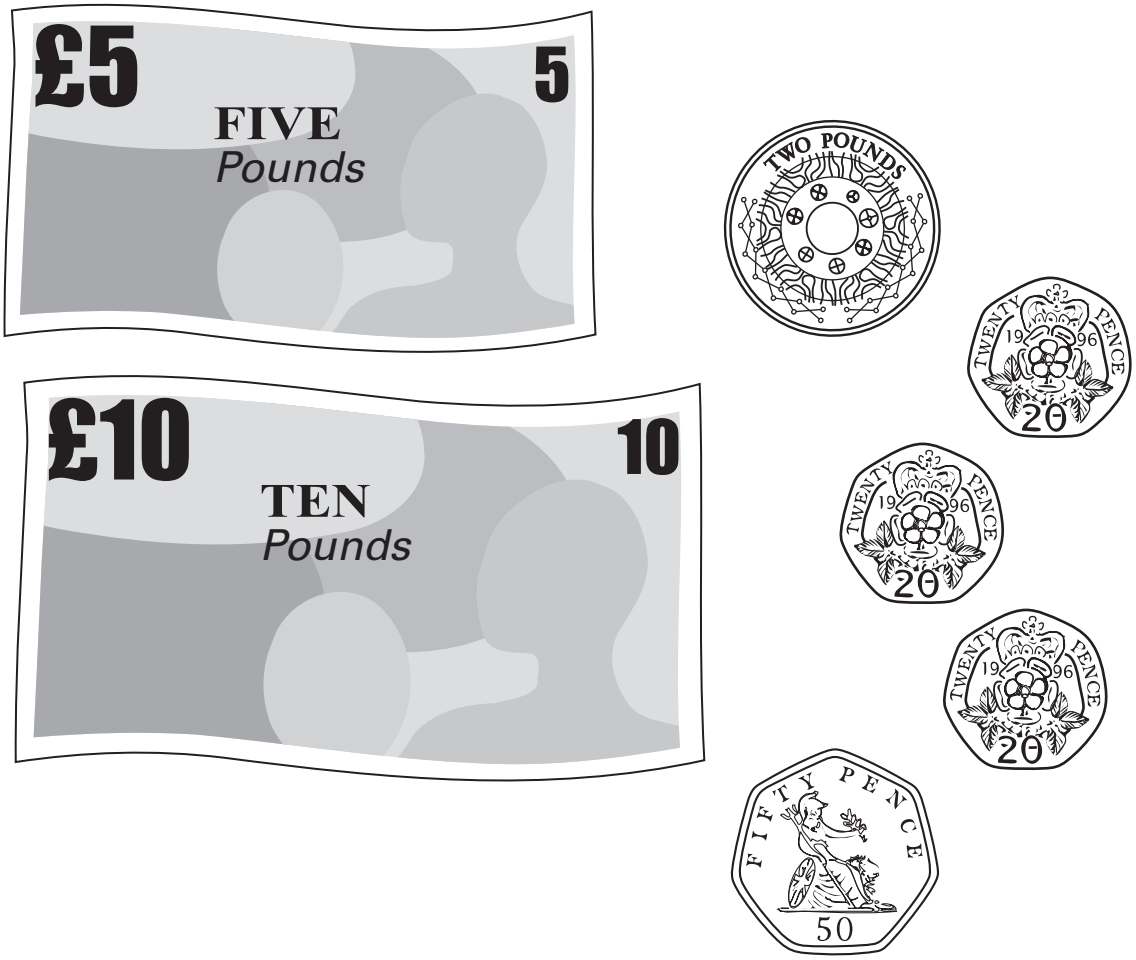
triangular prism

3

1 mark

Total out of 4

4 Reshma has some notes and some coins.



How much money does Reshma have?

£ 4

1 mark

5 The children in Farm School Orchestra each play one instrument.

The table shows how many children play each instrument.

	instrument	number of children
woodwind	recorder	23
	clarinet	4
	flute	5
percussion	drum	1
	piano	2
string	violin	7

How many **more** children play a recorder than play a violin?

5a

1 mark

How many of the children do **not** play a percussion instrument?

5b

1 mark

Total out of 3

6 Here are some numbers.

6 2 32 5

Write each number in a box to make this number story correct.

There are ☐ sweets in a bag.

☐ friends share them equally.

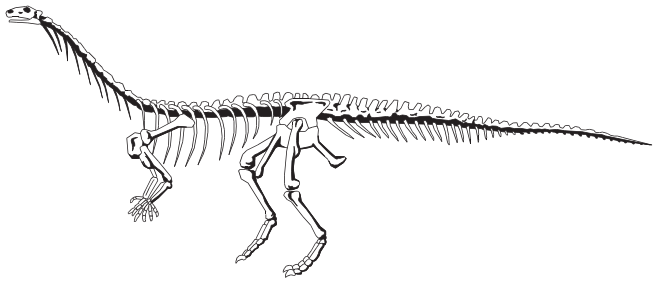
Each friend gets ☐ sweets.

☐ sweets are left over.

6

1 mark

7 Mr Barker takes his class to a museum.



They enter the dinosaur display at 12:45pm.

They leave at 1:30pm.

How long do they spend at the dinosaur display?
Circle the correct answer.

$\frac{1}{4}$ hour | $\frac{1}{2}$ hour | $\frac{3}{4}$ hour

1 hour | more than 1 hour

7

1 mark

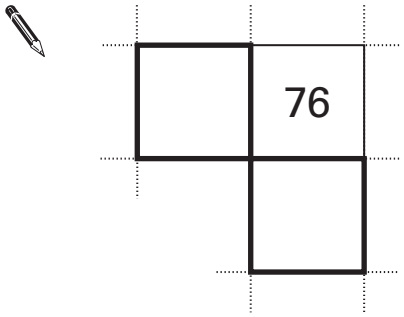
Total out of 2

8 Here is part of a number grid.

2	4	6	8	10
12	14	16	18	20
22	24	26	28	30
32	34	36	38	40

Here is another part of the **same** grid.

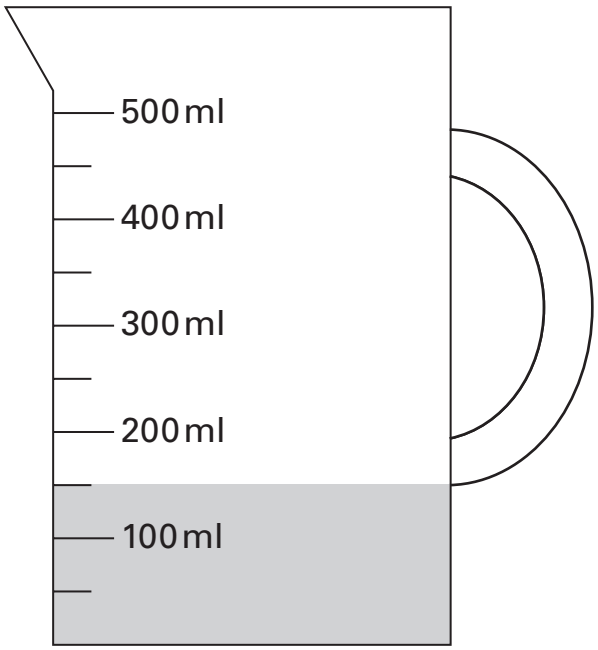
Write in the missing numbers.



8

1 mark

9 Here is a jug with some water in it.



How many **more** millilitres of water must be added so that there are **500 ml** in the jug?

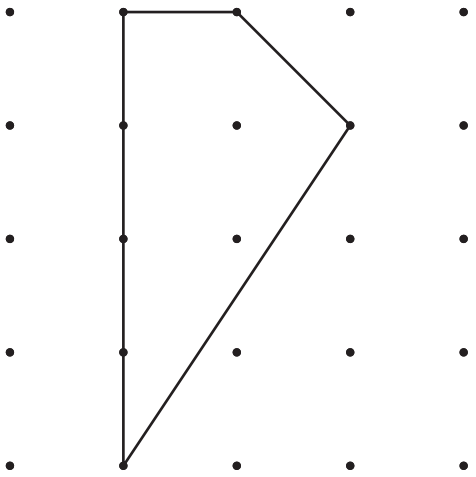
ml

9

1 mark

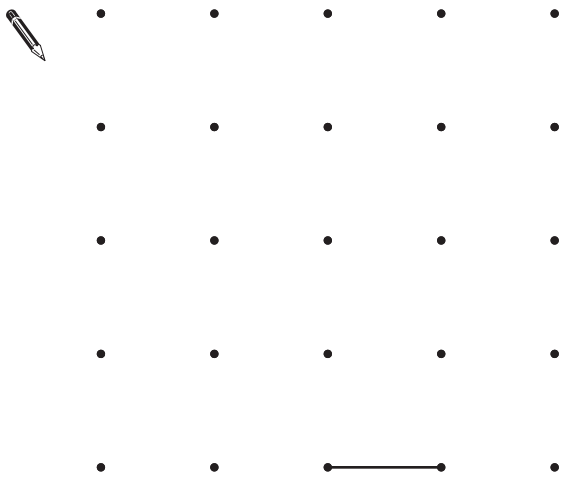
Total out of 2

10 Emma drew this shape.



Draw how Emma's shape will look after a **half-turn**.

One line has been drawn for you.

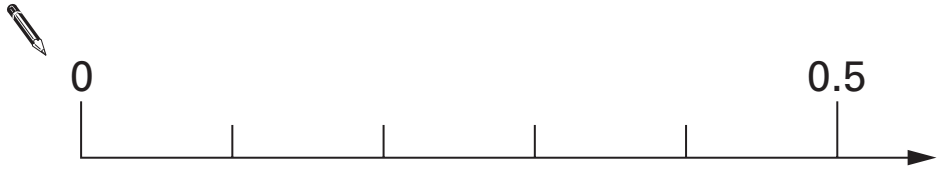


10

1 mark

11 Here is part of a number line.

Draw an arrow (↓) to show the position of **0.32**



11

1 mark

12 Here are three signs.

=	<	>

Write in the signs to make these correct.

100 ☐ 10 × 10

100 ☐ 15 × 5

100 ☐ 20 × 6

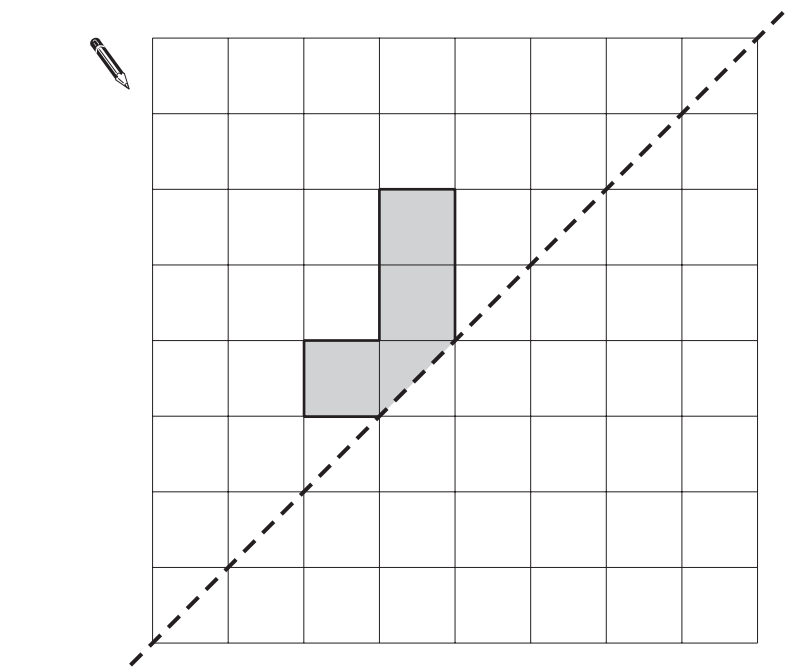
12

1 mark

Total out of 3 _____

13 Here is a shaded shape on a square grid.

Draw the reflection of the shape in the mirror line.

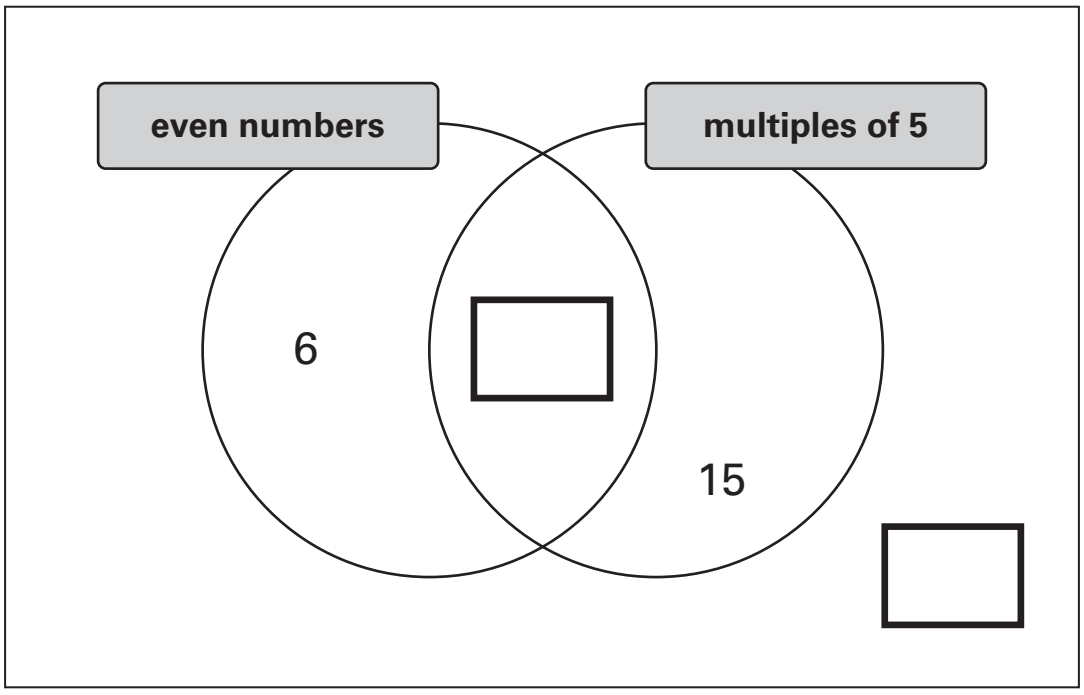


13

1 mark

14 Here is a sorting diagram.

Write a correct number in each of the two boxes.



14

1 mark

15 Luke buys **750** grams of apples.

Each apple weighs between **140** grams and **160** grams.

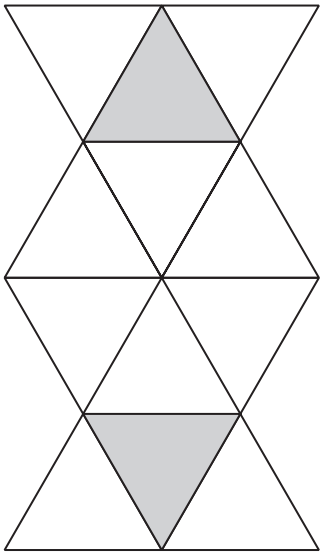
Circle the number of apples that Luke buys.

4 5 6 7 8

15

1 mark

16 Here is a shape made from matching triangles.



Circle the fraction of the shape that is shaded.

$\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$ $\frac{1}{5}$ $\frac{1}{6}$

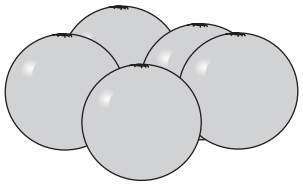
16

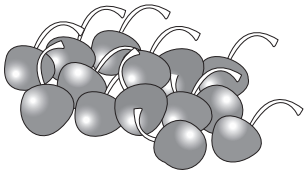
1 mark

Total out of 4 _____

17 These are the prices of fruit in a shop.

Oranges	Cherries
5 for 90p	80p for 100 grams





Emma buys 15 oranges.

How much does she pay?

17a

1 mark

Reshma buys some cherries.

They cost £1.20

How many grams of cherries does she buy?

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

17bi

g

17bii

2 marks

18 Luke sorts a set of numbers to find those that are odd.

He says,

'I only need to look at the last digit to know if a number is odd'.

Is Luke correct?
Circle **Yes** or **No**.

Yes / No

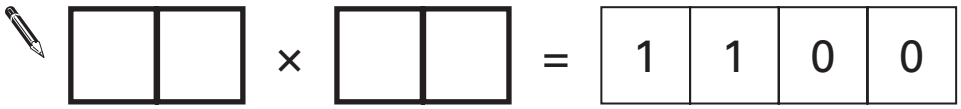
Explain how you know.

18

1 mark

Total out of 4

19 Write in four digits to make this correct.

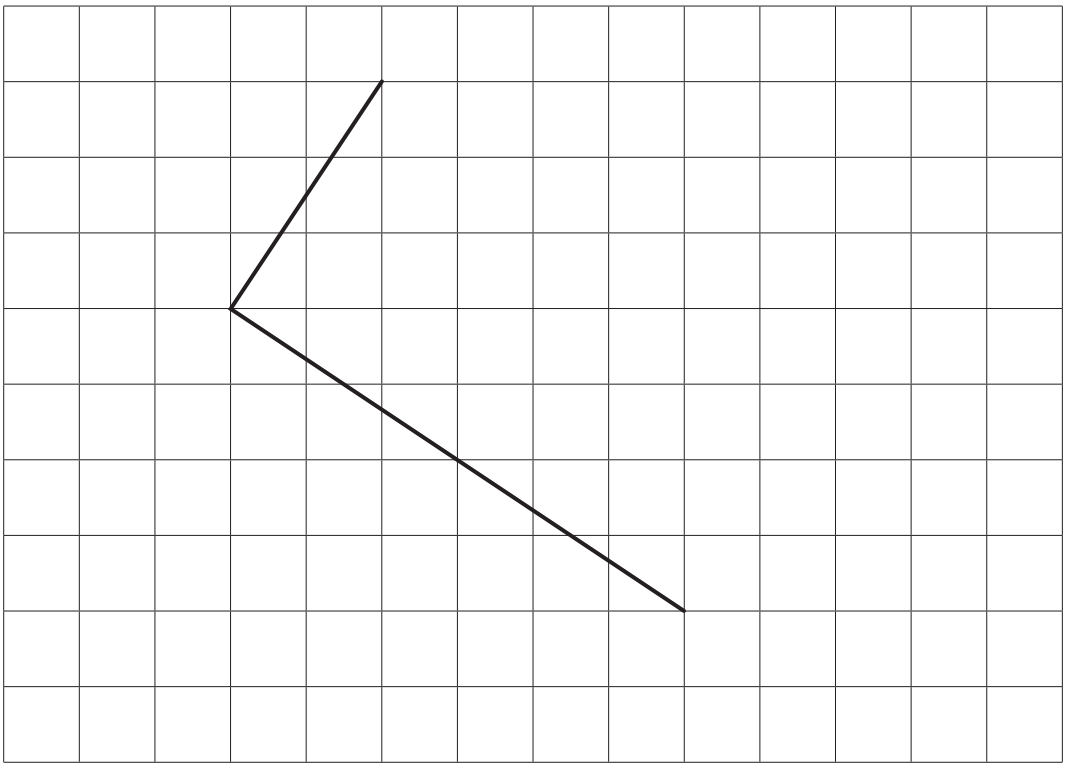


19

1 mark

20 Draw two more lines on this grid to complete the rectangle.

Use a ruler.



20

1 mark

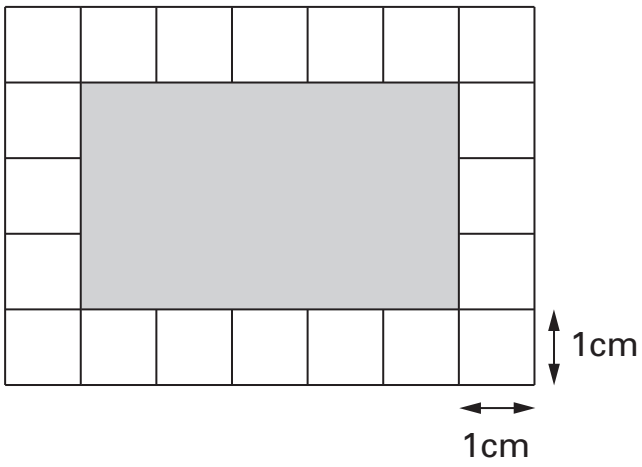
21 Put a ring around **all** the square numbers.

4 7 24 25 36 40

21

1 mark

22 Here is a shaded rectangle drawn on a grid of centimetre squares.



What is the **area** of the **shaded rectangle**?

cm^2

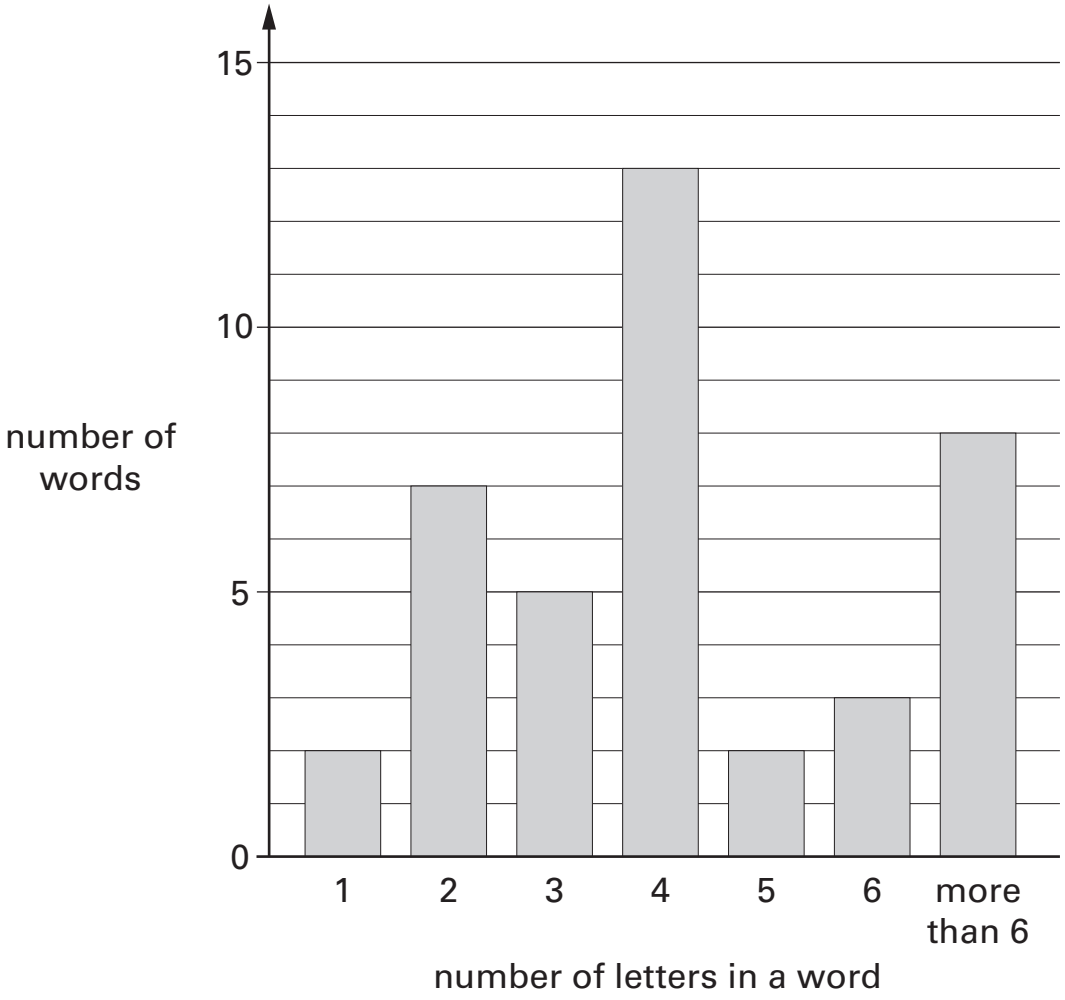
22

1 mark

Total out of 4

23 Emma counts how many letters there are in each of 40 words.

The bar chart shows her results.



How many words have **fewer** than 4 letters in them?

23a

1 mark

What **fraction** of the 40 words have **more than** 6 letters in them?

23b

1 mark

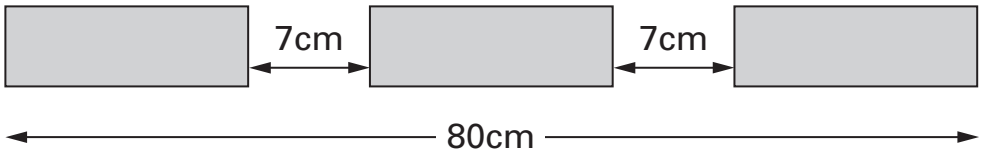
24 Calculate **15% of 80**

24

1 mark

25 Three identical blocks are placed in a line 80 centimetres long.

The gaps between the blocks are each 7cm.



Not drawn to scale

Work out the length of each block.

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

cm

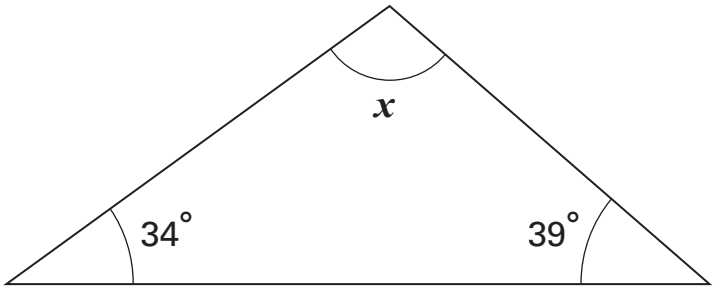
25i

25ii

2 marks

Total out of 5

26 Here is a triangle.



Not to scale

Calculate the size of angle x.

Do **not** use a protractor (angle measurer).

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

26i ____ °

26ii ____ °

2 marks

27 n stands for a number between 50 and 60

Complete these statements.

One has been done for you.

$n + 10$ stands for a number between 60 and 70

$10 \times n$ stands for a number between _____ and _____ 27a

1 mark

$n - 5$ stands for a number between _____ and _____ 27b

1 mark

Total out of 4 _____

QCA/06/1721 QCA, 83 Piccadilly, London W1J 8QA 271505