

Instructions

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

Questions and answers

You have **40 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:

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

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

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

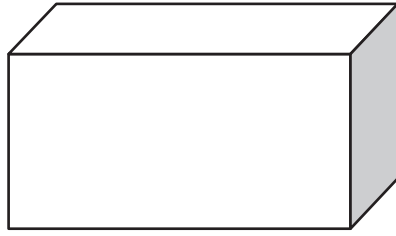
If you finish before the end, **go back and check your work.**

Marks

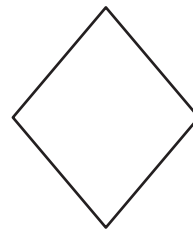
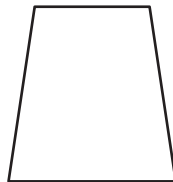
The number under each line at the side of the page tells you the maximum number of marks for each question.

1

One face of the 3-D shape is shaded.



Tick (✓) the shape that matches the shaded face.



1 mark

2

Write the missing number in the box.

$$1\ 701\ 004 = 1\ 000\ 000 + \boxed{700\ 000} + 1000 + 4$$

1 mark

3

Write the number six hundred and six thousand and sixty-six in digits.

606 066

1 mark

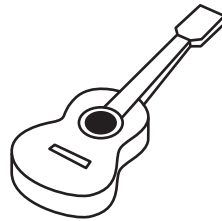
4



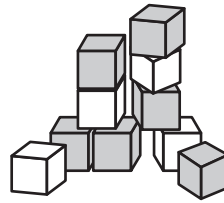
drum
£5.75



teddy
£3.85



guitar
£5.15



toy bricks
£4.25



toy car
£4.05

Emma chooses 2 toys from a toy shop.

She spends £9

Which 2 toys does she buy?

teddy

and

guitar

1 mark

Edward buys a toy car.

How much change does he receive from £5?

95p or £0.95

1 mark

5

Write the missing numbers in the boxes.



1 mark



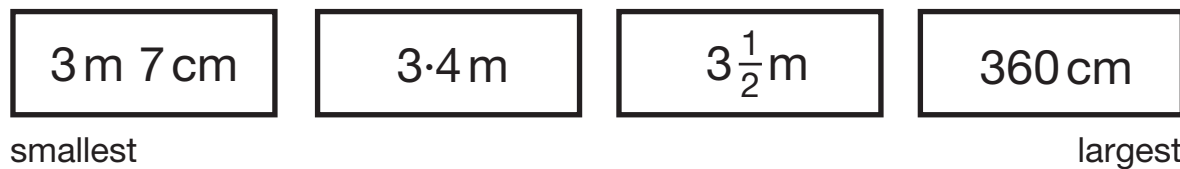
1 mark

6

Here are four lengths.

3 m 7 cm 360 cm 3·4 m $3\frac{1}{2}$ m

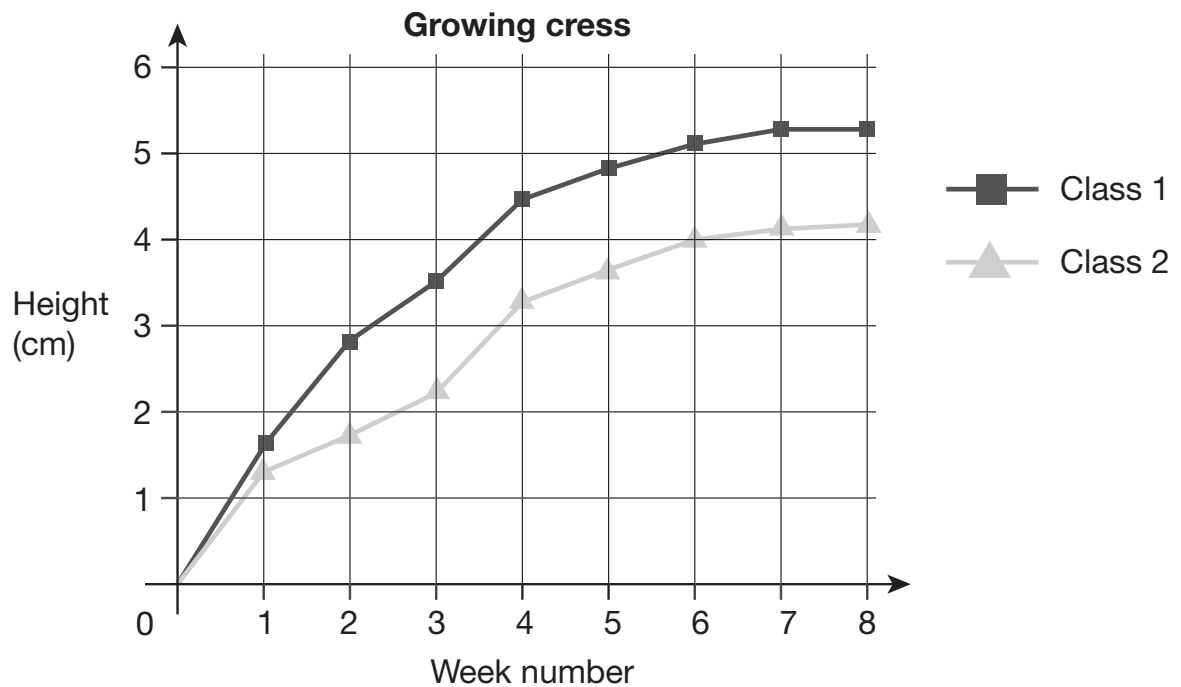
Write the lengths in order of size, starting with the smallest.



1 mark

7

Two classes each grew some cress.
They measured the height every week.
The results are shown on the line graph.



How tall was the cress grown by Class 2 after 6 weeks?

4 cm

1 mark

After 8 weeks approximately how much taller was the cress grown by Class 1 than Class 2?

1 cm

1 mark

8

Complete the sequence of the **first 5 prime numbers**.

2

3

5

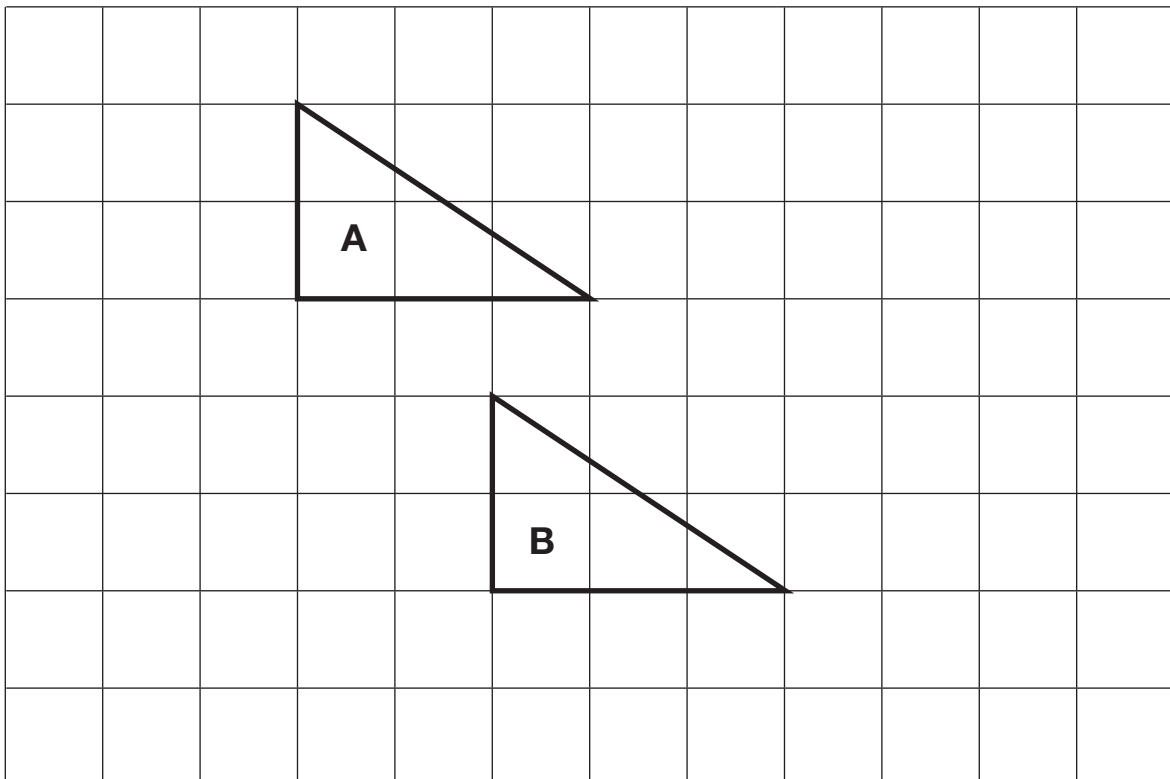
7

11

1 mark

9

Two triangles **A** and **B** are drawn on a square grid.



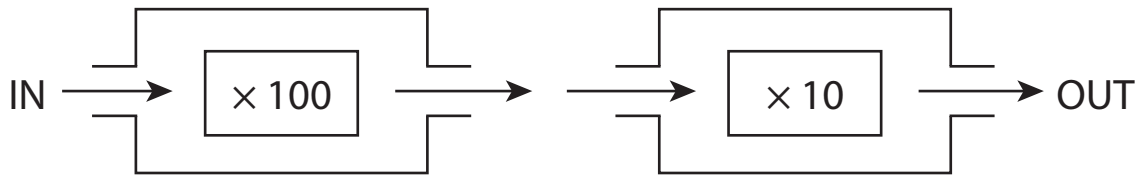
Describe the translation which moves triangle **A** to triangle **B**.

RIGHT 2 DOWN 3

1 mark

10

Two function machines are placed next to each other.

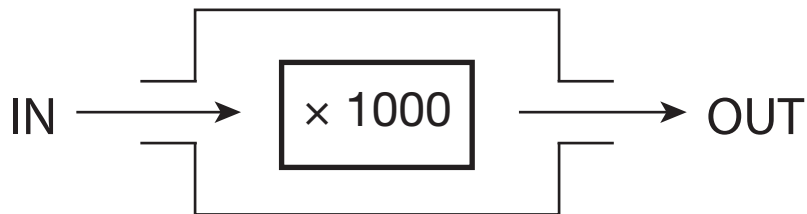


Write the missing number.

In	Out
3	3000
12	12 000
5.4	5400

1 mark

Write the two functions as a **single function** in this function machine.

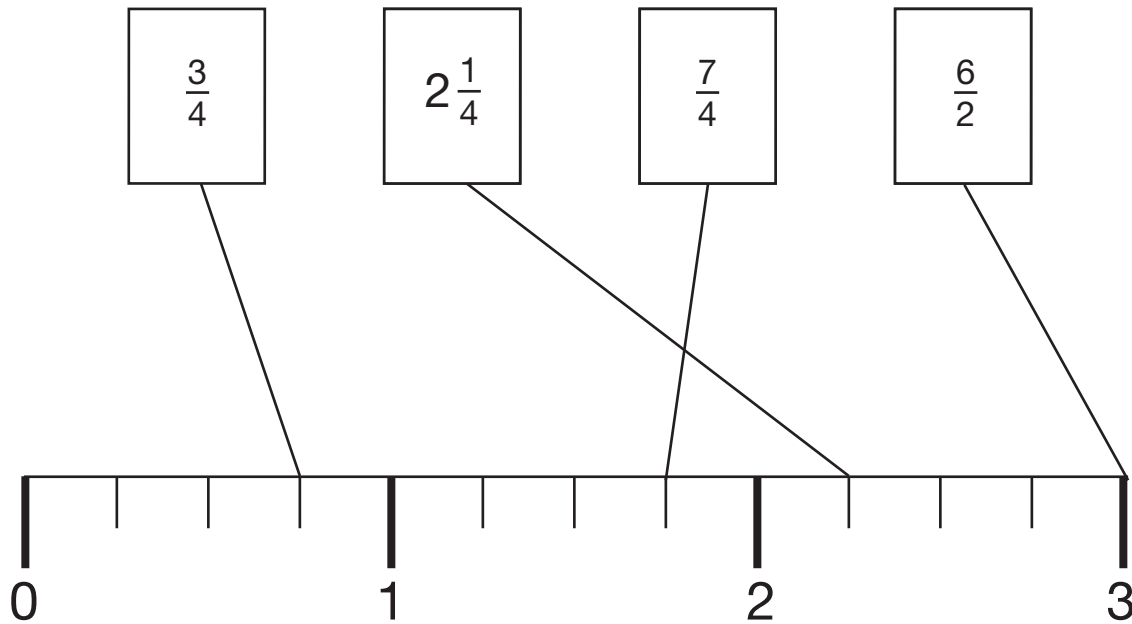


1 mark

11

Join each fraction to its place on the number line.

One has been done for you.



2 marks

12

Harper thinks of a four-digit number.

It is a multiple of 100
The hundreds digit is a square number.
The thousands digit is a cube number.
The thousands digit is twice the
hundreds digit.

What is the number?

8	4	0	0
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1 mark

13

Write the missing numbers.

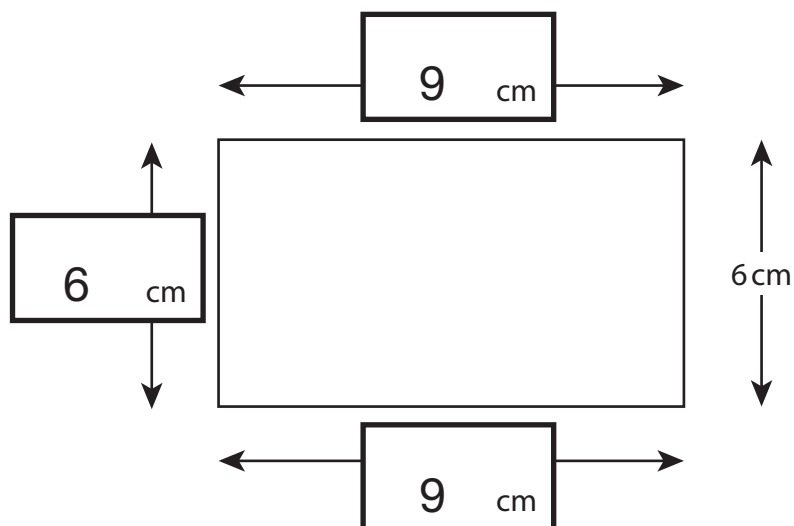
	Rounded to a whole number	Rounded to one decimal place
2.14	2	2.1
5.67	6	5.7

2 marks

14A rectangle has a **perimeter of 30 cm**

One side length is 6 cm

Write the missing lengths of the rectangle.

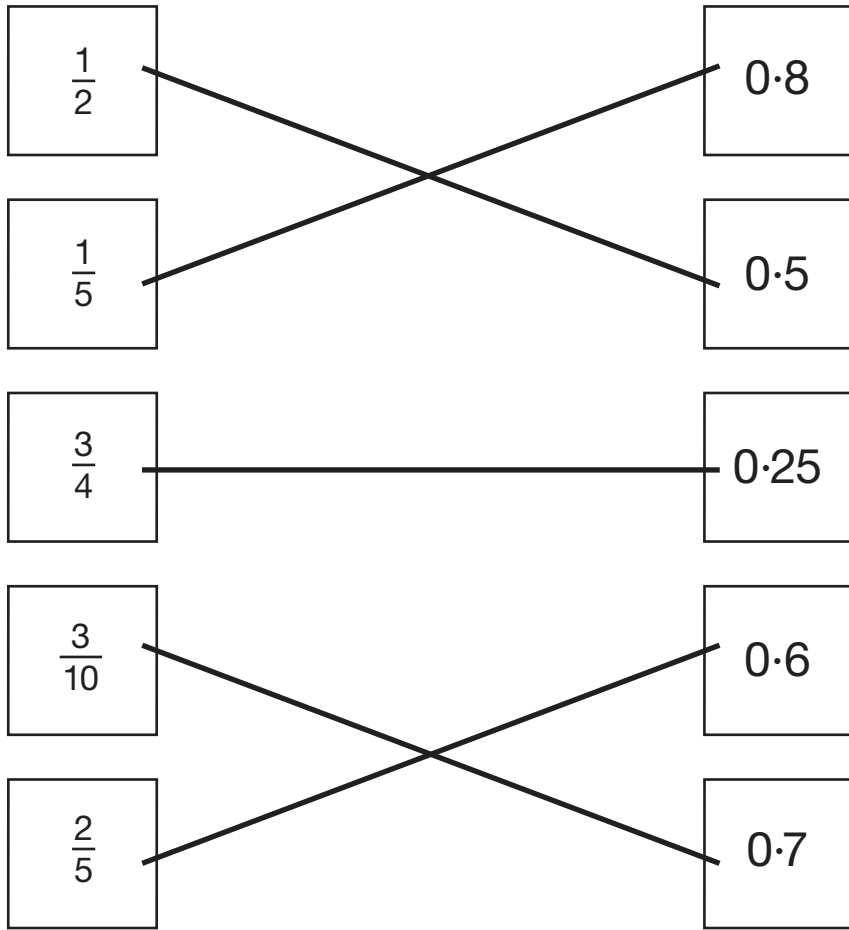


2 marks

15

Match each fraction to a decimal to make a total of 1

One has been done for you.



2 marks

16

Write the missing numbers to complete the calculations.

$$30 \times 40 = 12 \times \boxed{100}$$

1 mark

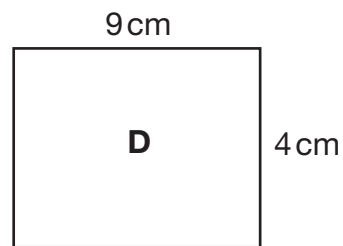
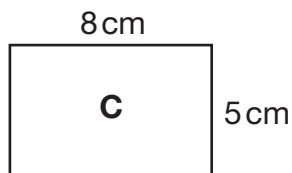
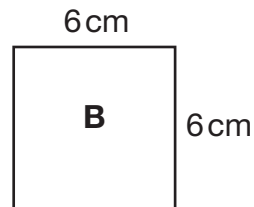
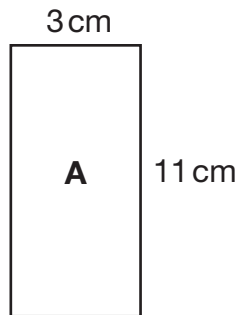
$$43 \times 12 = 430 + \boxed{86}$$

1 mark

18

Write the letters of the shapes that have the **same area**.

Not drawn to scale.



1 mark

19

8000 people attended a concert, rounded to the nearest thousand.

Circle the number that could **not** be the exact attendance.

8200



8473

7745

8005

1 mark

21

$\frac{5}{6}$ of the shape is shaded.



Use the diagram to help you find $\frac{5}{6} \times 3$

$\frac{15}{6}$

1 mark

22

Write **seven halves** as a decimal.

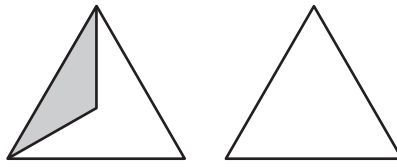
3.5

1 mark

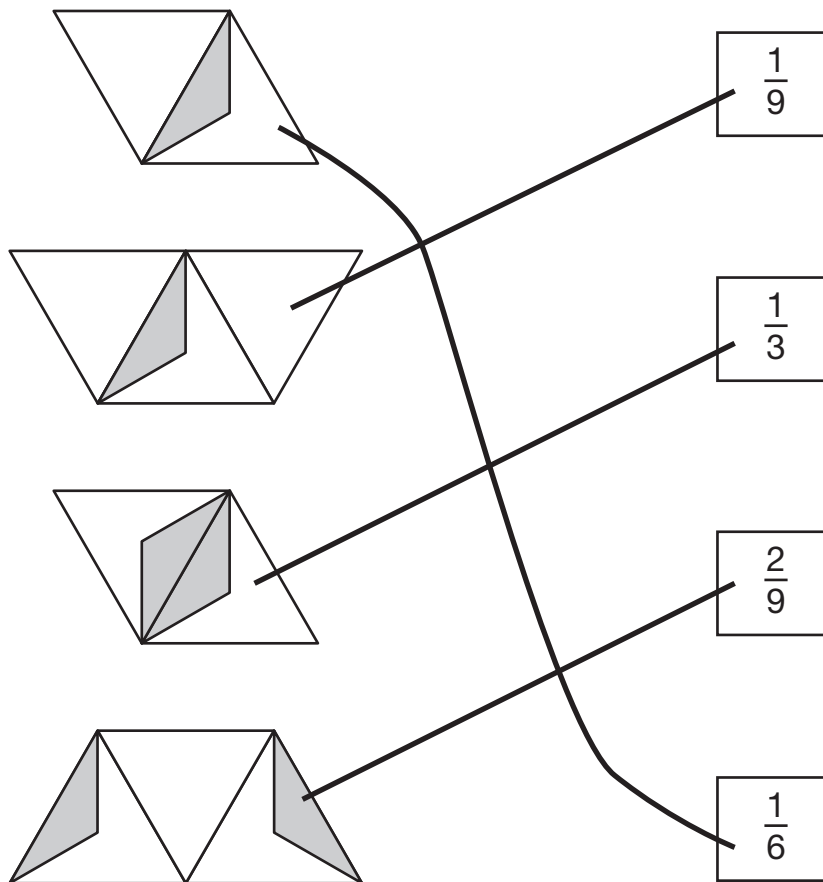
23

Jamie is designing patterns made from triangles.

He has some triangles that have $\frac{1}{3}$ shaded and some triangles that are all white.



Match each pattern to the fraction it has shaded.



2 marks