1 In this grid, there are four multiplications.

Write the **three** missing numbers.

4	×	8	=	
×		×		
3	×		=	21
=		=		
		56		

1 mark

2 What number is 1,000 **less** than 9,072?

1 mark

3 Order the numbers starting with the **largest**.
Match each number with its order.

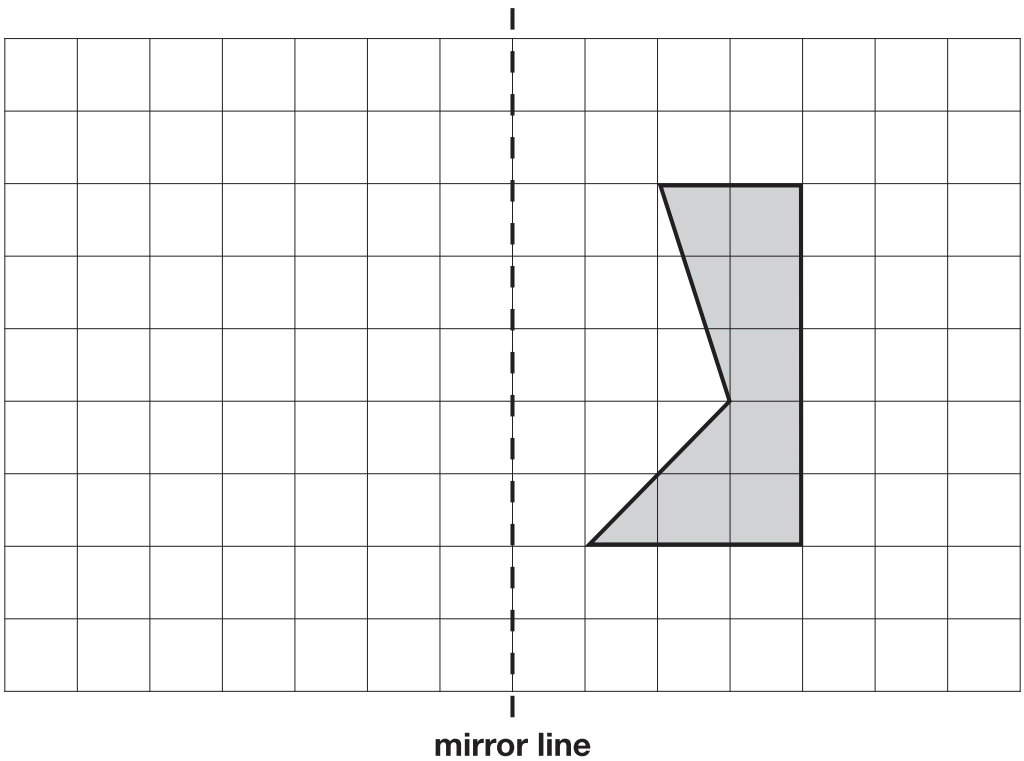
1,009,909		1st	largest
1,023,065		2nd	
1,009,099		3rd	
1,230,650		4th	smallest

1 mark

4 Here is a shaded shape on a square grid.

Reflect the shape in the mirror line.

Use a ruler.



1 mark

5 The numbers in this sequence **increase** by 45 each time.

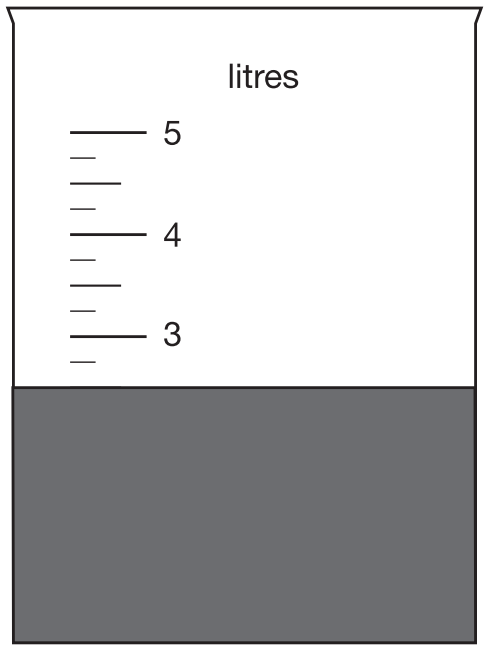
Write the missing numbers.

2 marks

6 Write the missing number to make this **division** correct.

1 mark

7 Jack pours some dark paint into a container.



In litres, how much paint is in the container?

litres

1 mark

8 In this sequence, the rule to get the next number is

Multiply by 2, and then add 3

Write the missing numbers.

1 mark

	25	53	

1 mark

9 Jack chose a number.

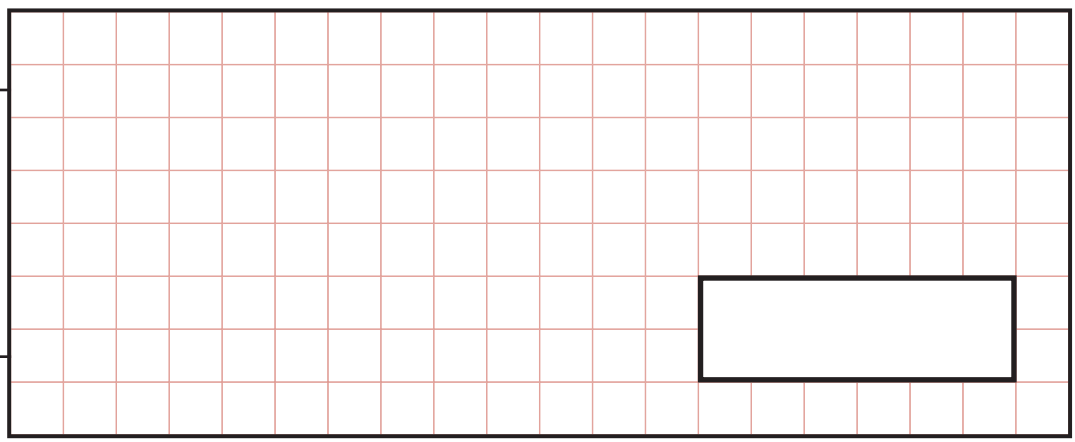
He multiplied the number by 7

Then he added 85

His answer was 953

What number did Jack choose?

Show your method



2 marks

10 A theme park sells tickets online.

Each ticket costs £24

There is a £3 charge for buying tickets.

Which of these shows how to calculate the total cost, in pounds?

Tick **one**.

number of tickets × 3 + 24 ☐

number of tickets × 24 + 3 ☐

number of tickets + 3 × 24 ☐

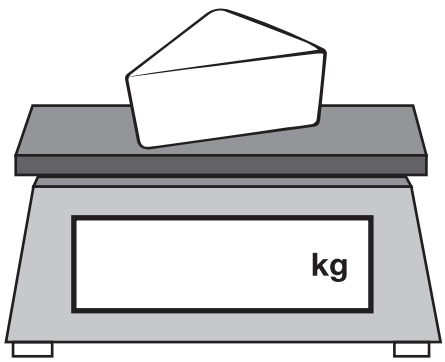
number of tickets + 24 × 3 ☐

1 mark

11 Amina is shopping.

She says,

Write one-quarter on the scales as a decimal.



1 mark

The cheese costs £1.35

Amina pays with a £2 coin.

How much change should Amina get?

1 mark

12 Here are three symbols.

$<$ $>$ $=$

Write one symbol in each box to make the statements correct.

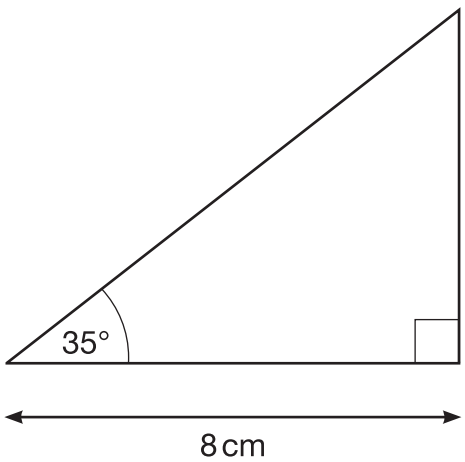
$\frac{7}{10}$ ☐ 0.07

$\frac{23}{1000}$ ☐ 0.23

1 mark

13 Here is a sketch of a triangle.

It is not drawn to scale.



Not to scale

Draw the full-size triangle **accurately** below.

Use an angle measurer (protractor) and a ruler.

One line has been drawn for you.

8 cm

2 marks

14 Complete the table.

	Round 39,476
to the nearest 10,000	
to the nearest 1,000	
to the nearest 100	

2 marks

15 Amina asked 60 children to choose their favourite flavour of jelly.

These were her results.

Flavour	Number of children
Raspberry	12
Lemon	8
Orange	15
Blackcurrant	25
Total	**60**

What **percentage** of the 60 children chose orange?

%

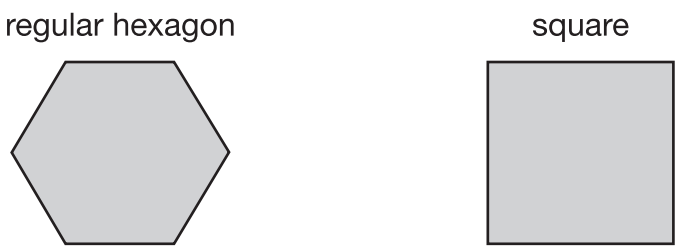
1 mark

16 Write the missing number.

$$6 + 2 \times 2 - \square = 6$$

1 mark

17 These two shapes have the **same** perimeter.



Not actual size

The length of each side of the **hexagon** is **8** centimetres.

Calculate the **area** of the **square**.

Show your method

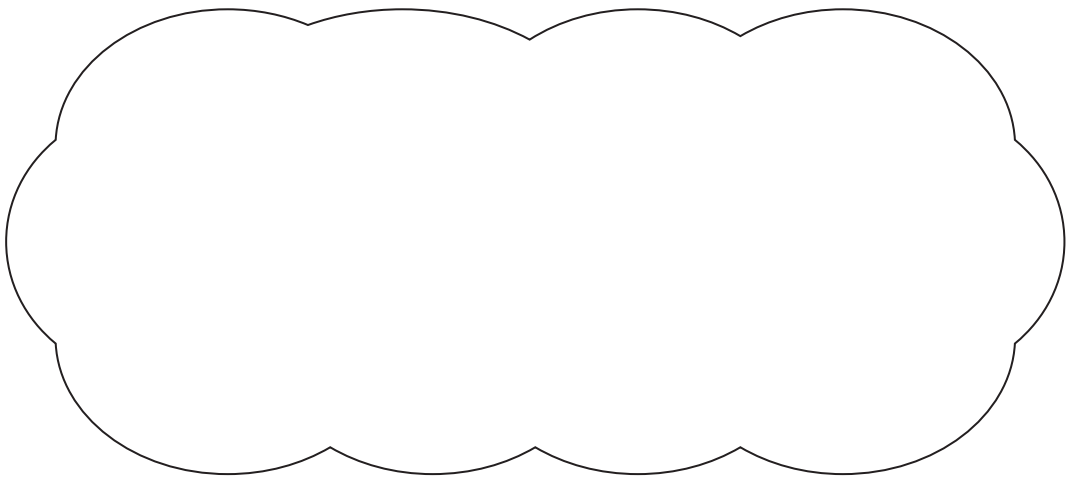
cm^2

2 marks

18 Circle the **prime** number.

95 89 87

Explain how you know the other numbers are **not** prime.



1 mark

19 A machine pours 250 millilitres of juice every 4 seconds.

How many **litres** of juice does the machine pour every **minute**?

Show your method

litres

2 marks

20 Tick the fractions that are **equal** to 20%.

$\frac{1}{20}$ ☐

$\frac{20}{40}$ ☐

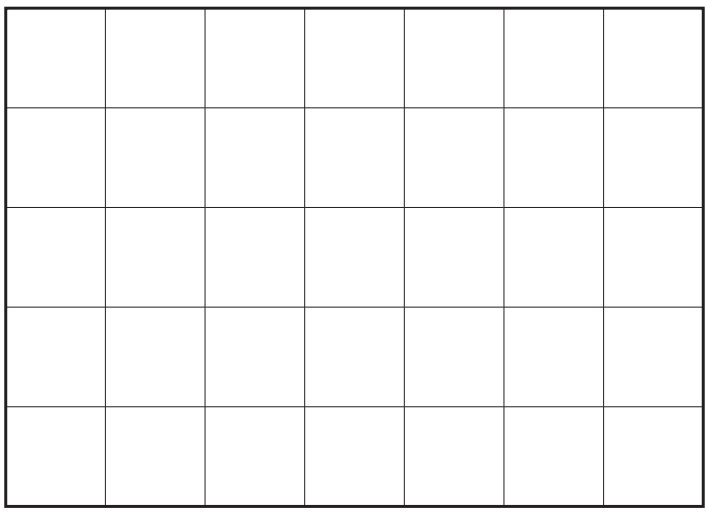
$\frac{1}{5}$ ☐

$\frac{3}{15}$ ☐

$\frac{2}{100}$ ☐

2 marks

21 Adam has this rectangular piece of card. It is marked with grid lines.



1 mark

Adam makes two straight cuts along the grid lines.

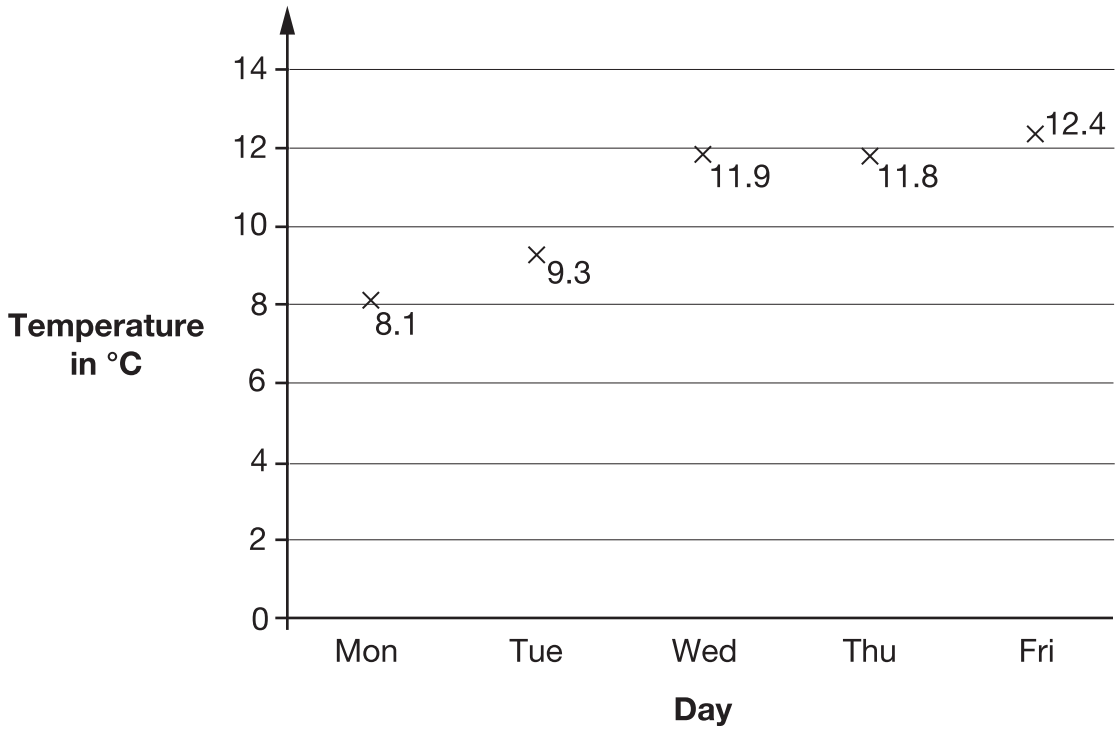
The two cuts divide the rectangle into 3 shapes:

- 2 squares of **different** size, and
- 1 rectangle.

Using the grid lines, draw **two** lines that show where Adam could have made his cuts.

Use a ruler.

22 This graph shows the maximum temperature for five days.



For what fraction of the five days was the maximum temperature below 10 °C?

1 mark

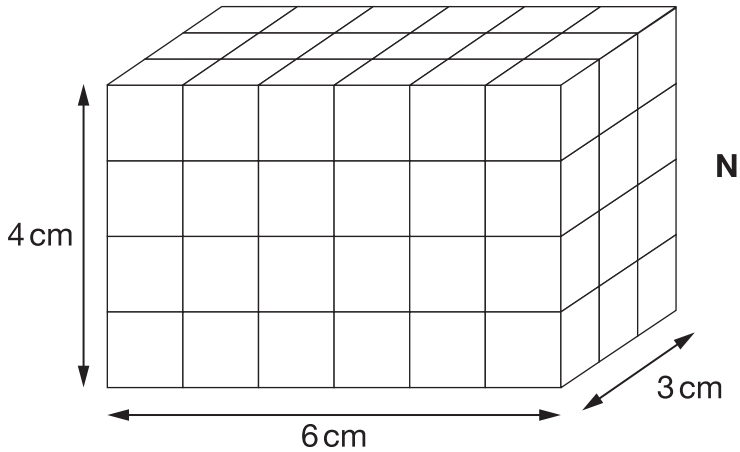
What was the **mean** maximum temperature, to one decimal place?

Show your method

°C

2 marks

23 Amina made this cuboid using centimetre cubes.



Not actual size

Stefan makes a cuboid that is 5 cm longer, 5 cm taller and 5 cm wider than Amina's cuboid.

What is the **difference** between the number of cubes in Amina's and Stefan's cuboids?

Show your method

cubes

2 marks