Year 4

Mathematics

Paper 2: reasoning and problem solving

First name	
Middle name	
Last name	
Date of birth	Day Month Year
Teacher	

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Please do not write on this page.

Instructions

You **may not** use a calculator to answer any questions in this paper.
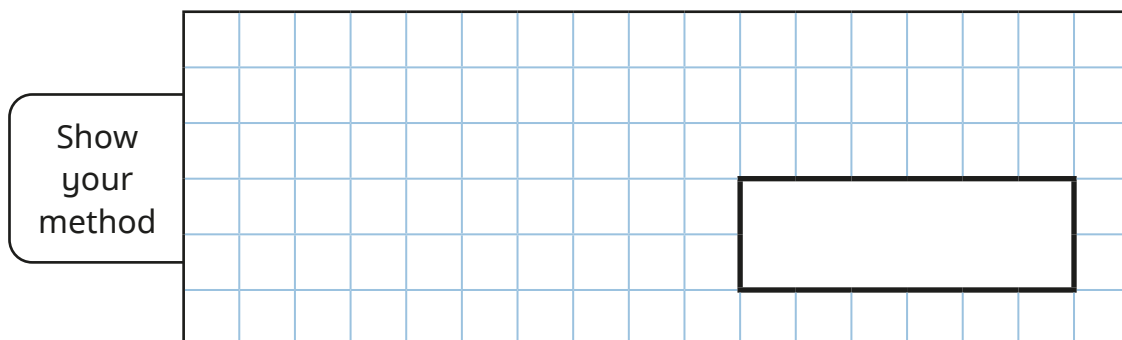
Questions and answers

You have **50 minutes** to complete this paper.

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:

Show your method

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

If you cannot do one of the questions, **go on to the next one**.
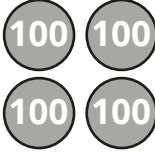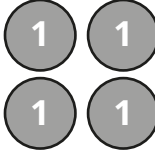
You can come back to it later, if you have time.

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

Marks

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

1 Sam makes a number on a place value chart.

Thousands	Hundreds	Tens	Ones
1,000 1,000	100 100 100 100		1 1 1 1

What is Sam's number?

1 mark

Sam adds these counters to the place value chart.

100 100 100

What number is shown now?

1 mark

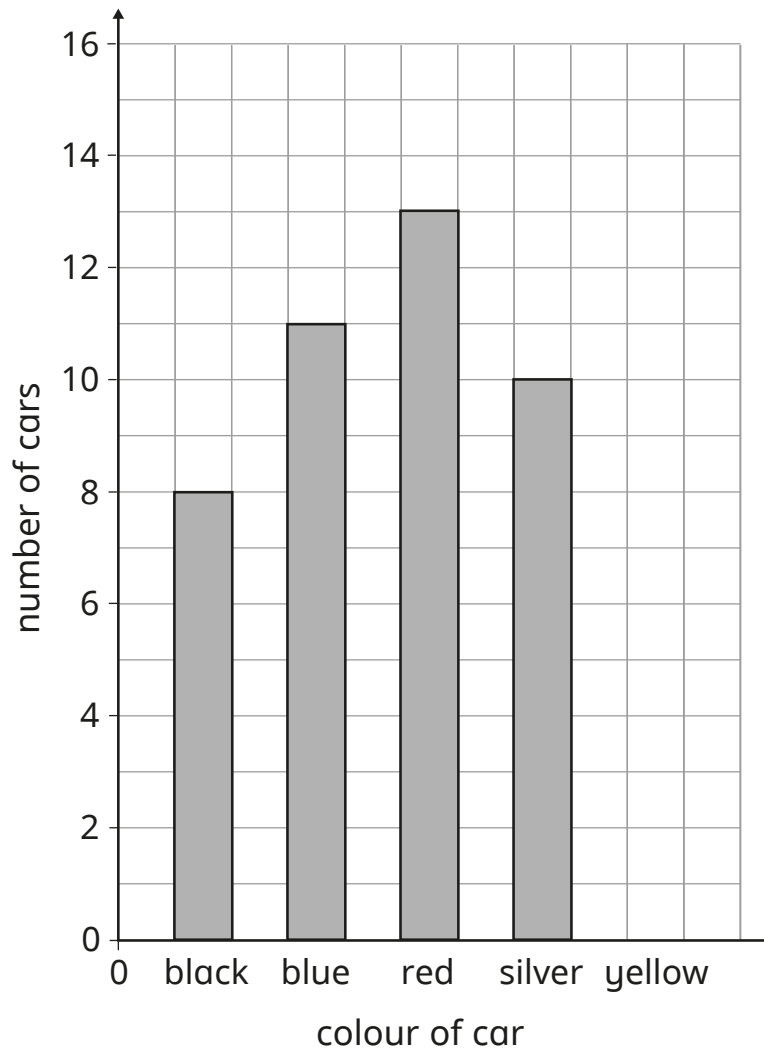**2** Max is counting in 8s from 0 to 80

Circle the numbers that he will say.

18   1   8   64   58

1 mark

3 The bar chart shows the colours of cars outside a school.

There are 5 yellow cars outside the school.
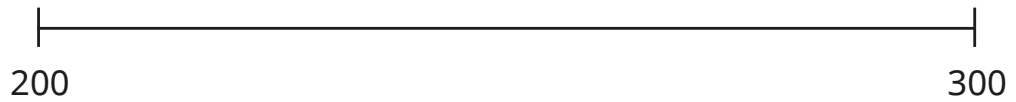
Show this information on the bar chart.

1 mark

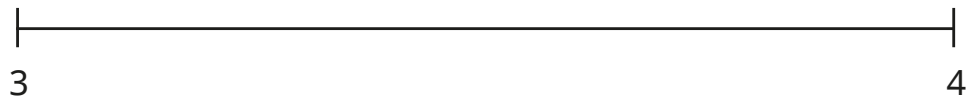How many of the cars are black or red?

1 mark

4 Complete the sentences.

279 rounded to the nearest 100 is [ ]

```
├────────────────────────────────────────┤
200                                      300
```

3.4 rounded to the nearest whole number is [ ]

```
├────────────────────────────────────────┤
3                                         4
```

5 Aisha cycles 5 laps of a track.

The total distance Aisha cycles is 20 km.

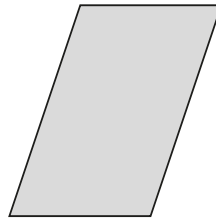Jack cycles 7 laps of the same track.

How far does Jack cycle in total?

[**km**]

6 What is the mathematical name of the shape?

Circle your answer.

rectangle   **parallelogram**   **trapezium**

1 mark

7 Complete the number sentences.

$$1 = \boxed{} + 0.2$$

1 mark

$$\boxed{} = 0.7 + \frac{3}{10}$$

1 mark

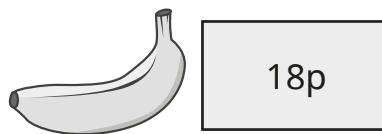**8** Eva starts watching TV at

She finishes watching at

17:49

How many minutes does Eva watch TV for?

minutes

9 A banana costs 18p.

18p
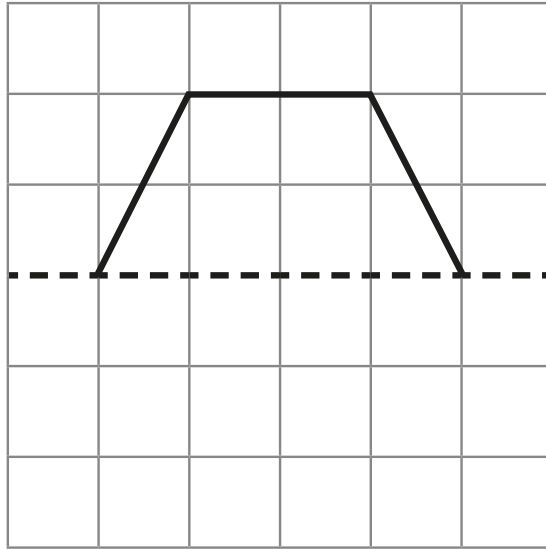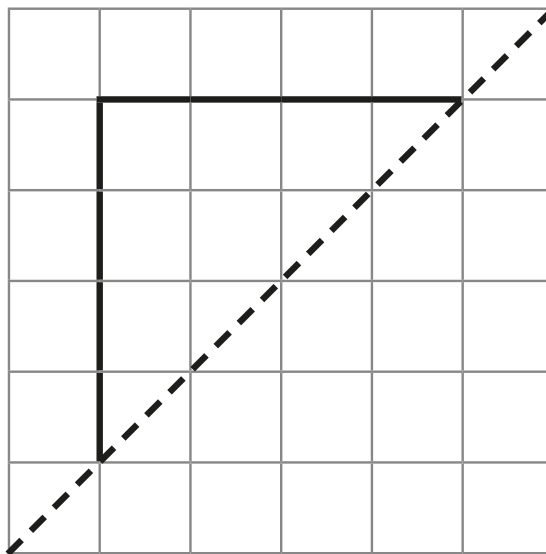
Dani has £1

How many bananas can she buy?
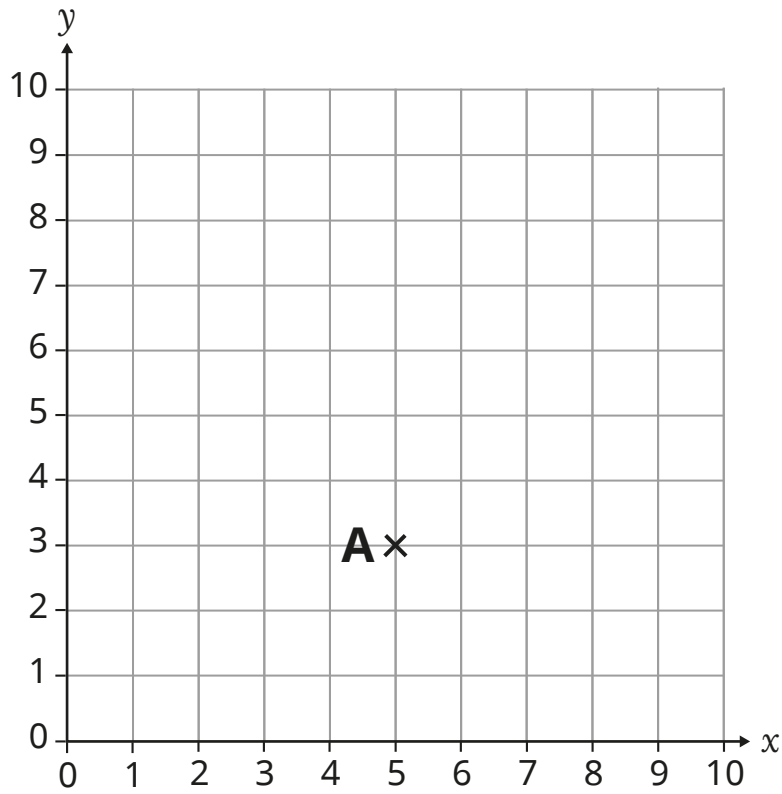
Complete the symmetric figures.

1 mark

1 mark

Here is a coordinate grid.

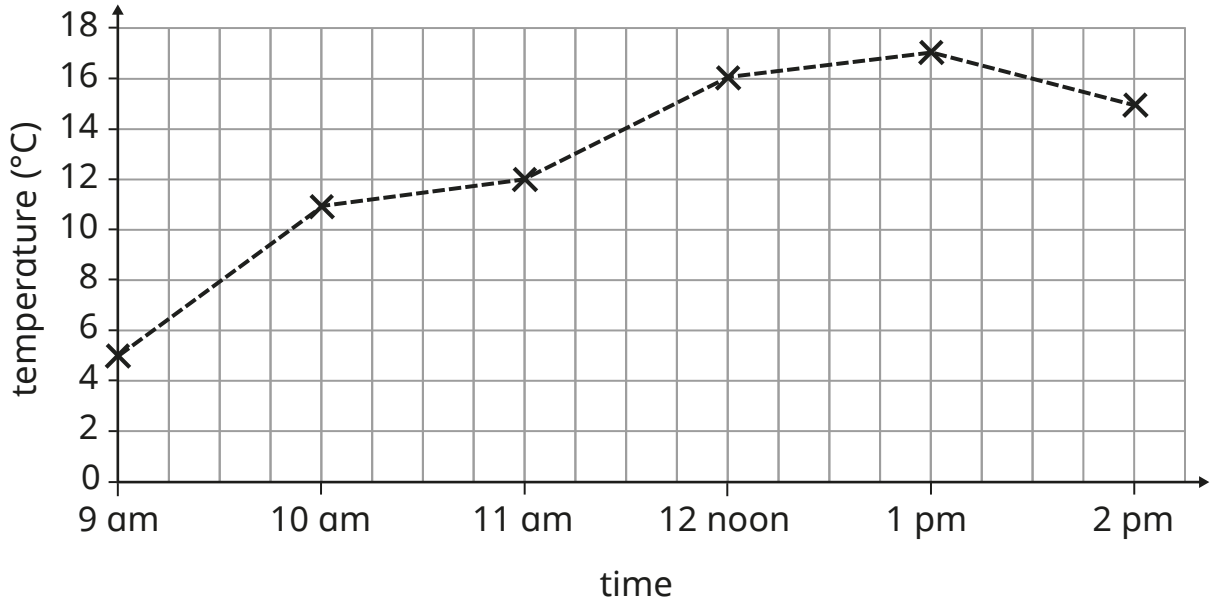Write the coordinates of point A.

(,   )

1 mark

Plot the point (1, 4) on the grid.

1 mark

12 The line graph shows the temperature at some times during one day.

What is the temperature at 10 am?

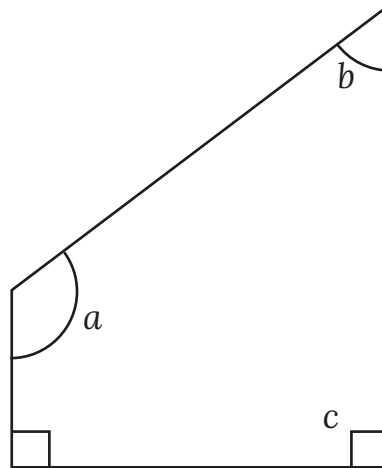| °C |

Explain why it is not possible to say the exact temperature at 1:30 pm.

13 Three angles are labelled in the shape.

Write the letters of the angles in order of size, from smallest to greatest.
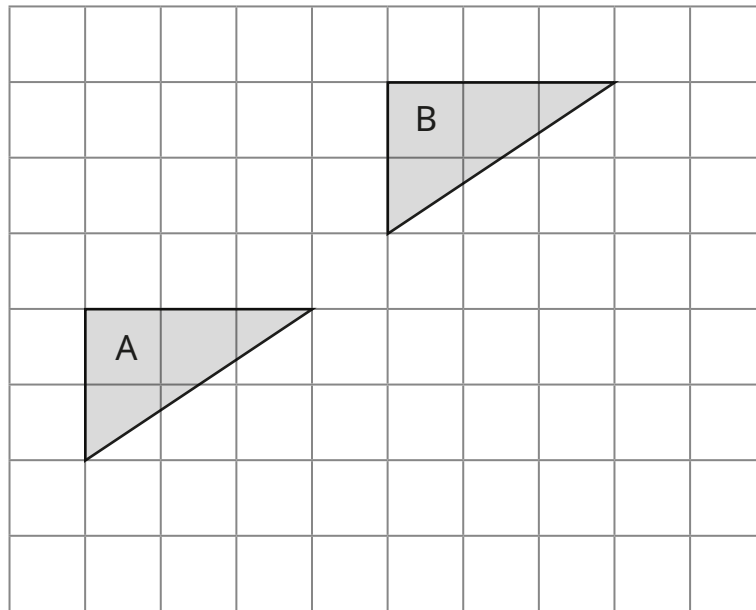
_____   _____   _____

Which of the three angles could measure 32°?

_____

14 Complete the sentence to describe the translation from shape A to shape B.

Shape A has been translated _____ squares to the right and _____ squares up.

1 mark

15 Mo buys a basketball and a teddy bear.

£9.50

£6.75

He pays with a £20 note.

How much change does Mo get?

Show your method

£

2 marks

16 Ron draws a regular polygon with a perimeter of 36 cm.

All of the sides measure a whole number of centimetres.

Write the name of one regular polygon that Ron could have drawn.

_____

1 mark

17 Are the statements true or false?

Circle your answers.

$7 \times 3 \times 4 = 4 \times 7 \times 3$ **True**   **False**

$8 \times 6 = 4 \times 4 \times 6$ **True**   **False**

$10 \times 3 = 5 \times 2 \times 3$ **True**   **False**

2 marks

18 Which of these is the greater amount of time?
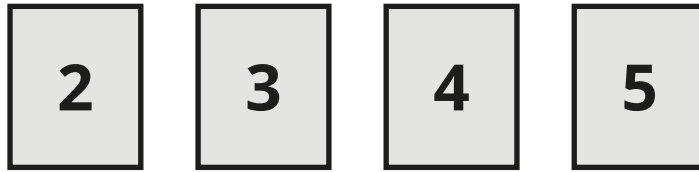
Circle your answer.

4 minutes and 38 seconds	311 seconds

Explain how you know.

1 mark

Use each digit card once to make the statement correct.

| 2 | 3 | 4 | 5 |

$$\frac{\boxed{}}{\boxed{}} < 1\frac{1}{2} < \frac{\boxed{}}{\boxed{}}$$

1 mark

END OF PAPER