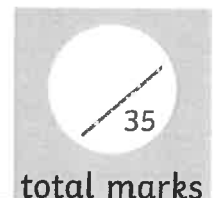


Key stage 2

Mathematics

Reasoning: Set 1 Paper B

Name	
Date	



Name:

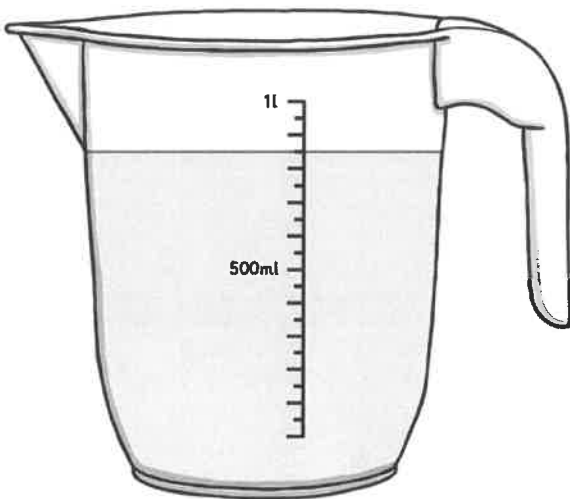
Date:

Year 5 Maths Reasoning Test Set 1: Paper B

1. A farmer has 1045 sheep. He sells 100 of the sheep. How many does he have left?

1 mark

2. Here is a jug containing some juice.



a) Half of the juice is used. On the jug below mark on the scale the new level of the juice.



1 mark

b) A further 150 ml of juice is used. How much juice is left in the jug in litres?

1 mark

Total for this page

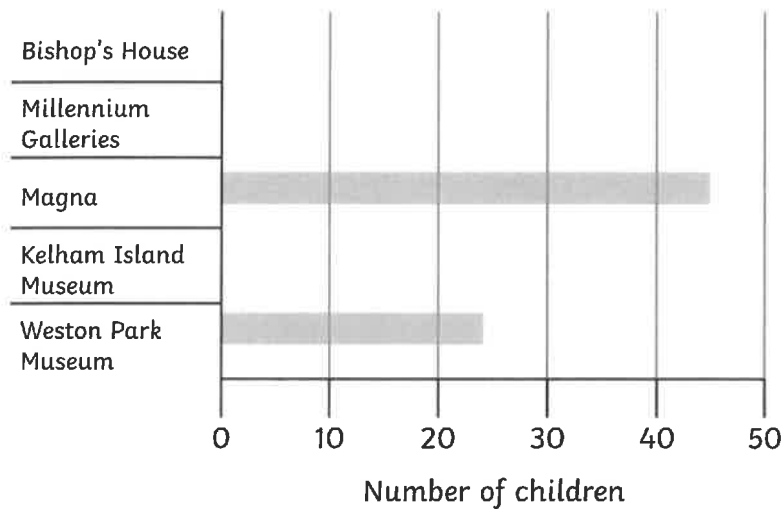
a) How many places have had 25 or more children visit?

1 mark

b) Two weeks after the survey, the children find out if anyone else has visited any of these places of interest. They record these extra children in this table.

Place of interest	Number of children
Bishop's House	8
Millennium Galleries	4
Kelham Island Museum	4

Add these children to the bar graph below.



1 mark

5. Fill in the missing digits to complete this calculation:

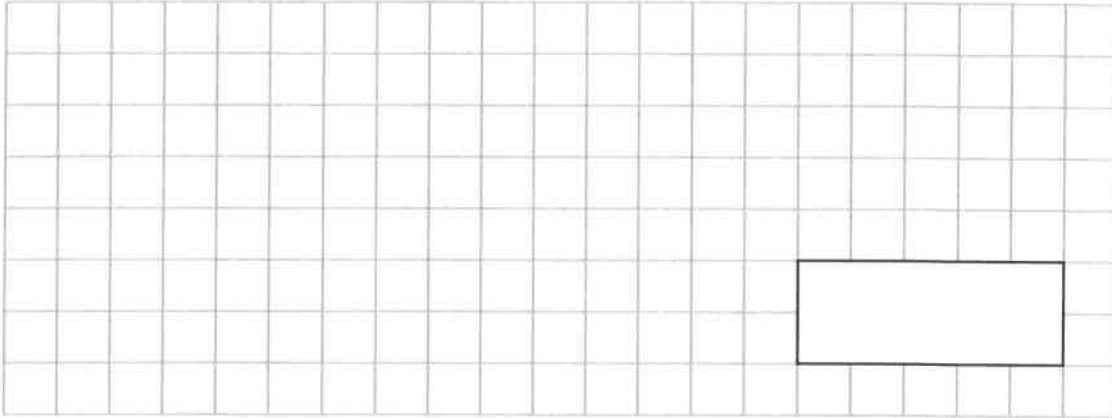
$$\begin{array}{r} 7 \quad \square \quad 6 \\ \times \quad \quad \square \\ \hline 2 \quad 9 \quad 0 \quad 4 \\ \hline \end{array}$$

1 mark

Total for this page

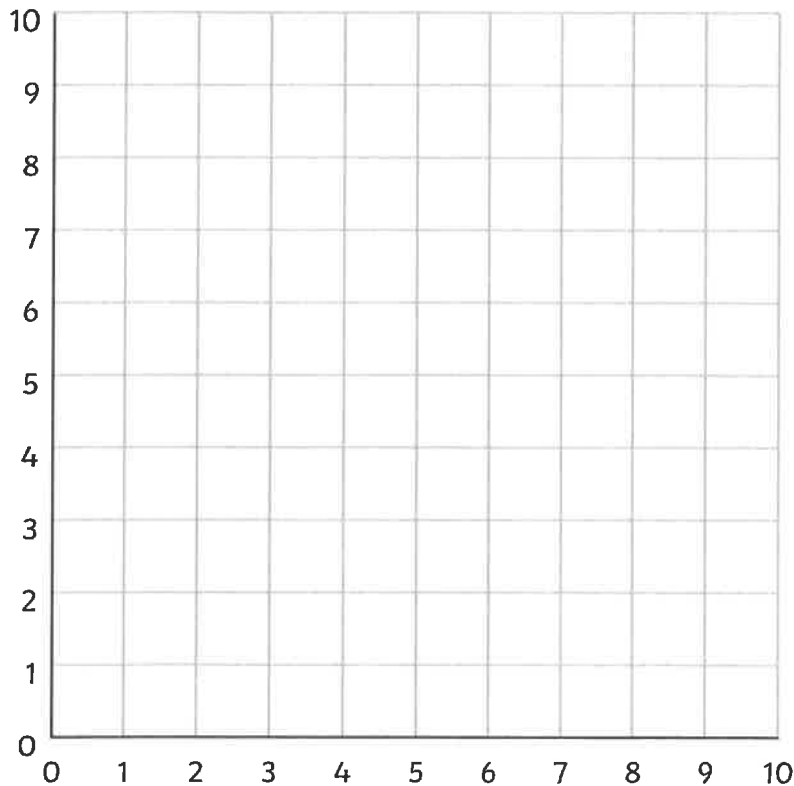
6. Some children from two Year 5 classes collect some money for Sport Relief by running around the playground and getting their parents to sponsor them. The amounts collected by each class are £36.27 and £42.89.

Their teachers offer to make the money up to £100. How much will the teachers donate?



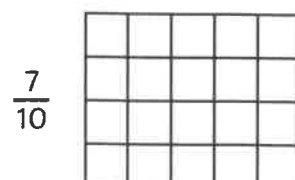
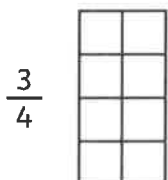
2 marks

7. Here are the coordinates for a shape drawn on a coordinates grid: (1,2) (9,2) (7,8) (3,8)
Draw the shape on this grid.



2 marks

8. Shade the following shapes so that the amount shaded is equivalent to the fraction shown.



2 marks

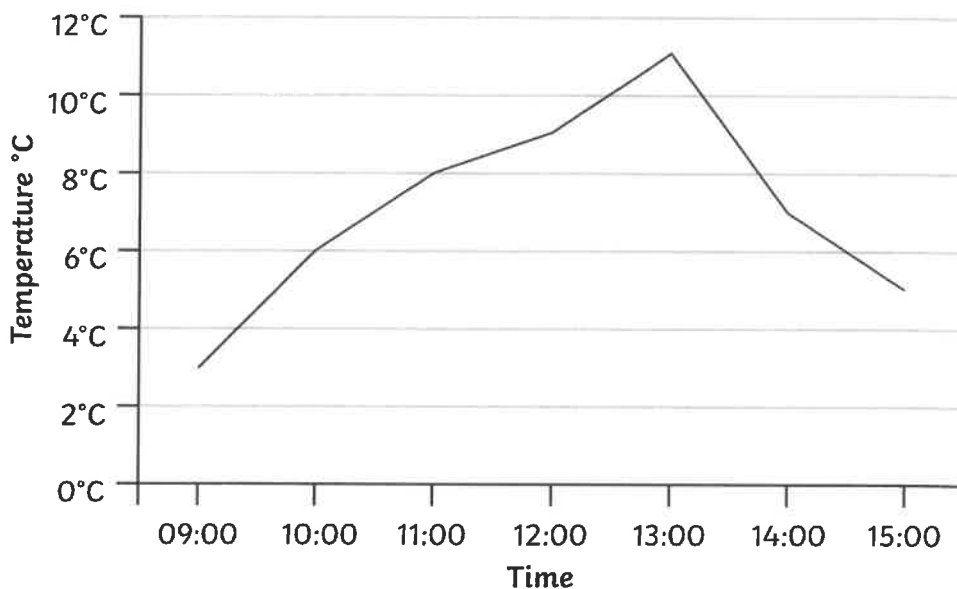
Total for this page

12. £2960 is shared among 1000 people. How much money does each person receive?

1 mark

13. Some children record the temperature in the playground every hour during the school day.

Here is the line graph they used to record their results.



a) How much did the temperature change between 10:00 and 13:00?

1 mark

b) Estimate the temperature at 13:30.

1 mark

c) The temperature falls by 7°C between 15:00 and 23:00.

What is the temperature at 23:00?

1 mark

Total for this page

18. A steam locomotive railway is running a special weekend to celebrate the film 'The Railway Children.' Here is the timetable.

Service	001	002	003
Haworth Forecourt	10:30	12:55	15:20
Bronte Parsonage Car Park	10:45	13:05	15:35
Marsh Top	10:50	13:10	15:40
Oxenhope Station	11:05	13:25	15:55
Hebden Road	11:08	13:28	16:05
Ingrow Station	11:30	13:50	16:20
Oakworth Park	11:40	14:00	16:30
Providence Lane	11:55	14:05	16:35

a) Which train travels from Haworth Forecourt to Marsh Top the fastest?

1 mark

b) Calculate the length of time the longest journey takes.

1 mark

19. Order the following numbers from smallest to largest.

$$\frac{765}{1000}$$

0.7

$$\frac{75}{100}$$

$$\frac{8}{10}$$

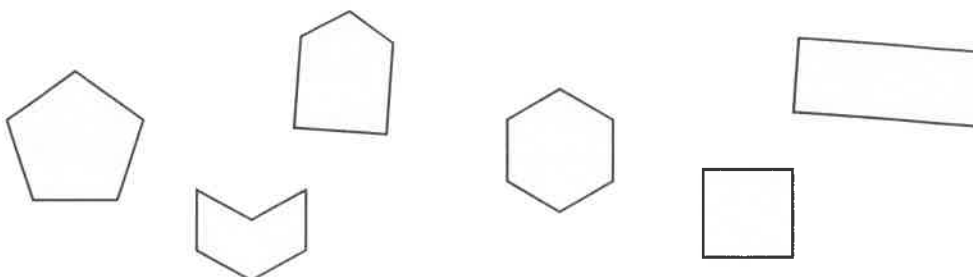
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smallest

largest

1 mark

20. Circle the regular shapes.



2 marks

Total for this page