

# Key stage 2

# Mathematics

Reasoning: Set 1 Paper B

Name	
Date	











## 35 total marks

### twinkl

#### 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?





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.





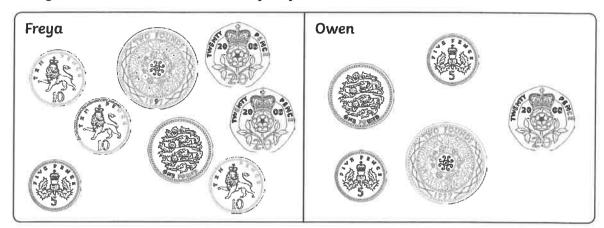
b) A further 150 ml of juice is used. How much juice is left in the jug in litres?

litres

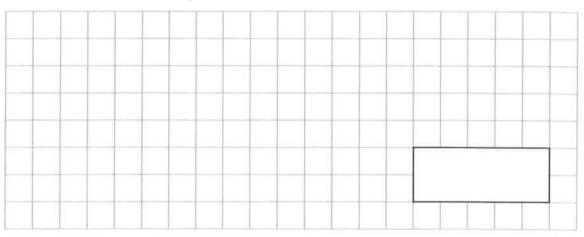




3. Freya and Owen each have a handful of coins. Here are their coins:



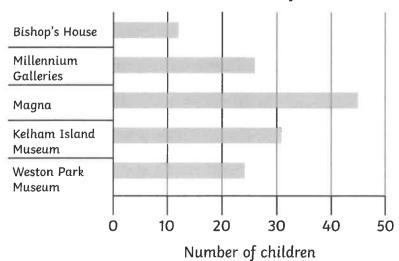
How much more does Freya have than Owen?



1 mark

4. A group of Year 1 children research the number of children who have visited some of the places of interest around their city.

Number of Children Who Have Visited Local Places of Interest





a)	How	manu	places	have	had	25	or	more	children	visit?
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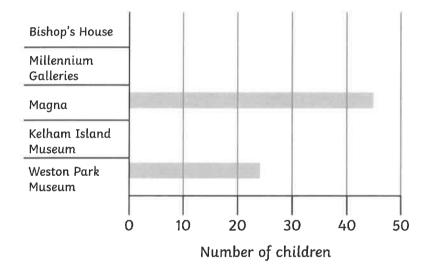
		- 1
		- 1
		- 1



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.

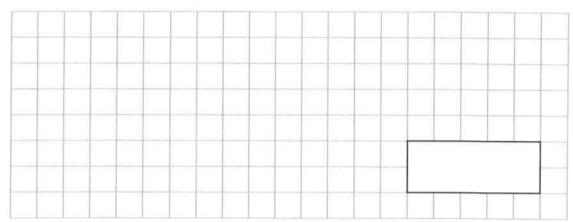


5. Fill in the missing digits to complete this calculation:

	7		6
	x		
2	9	0	4

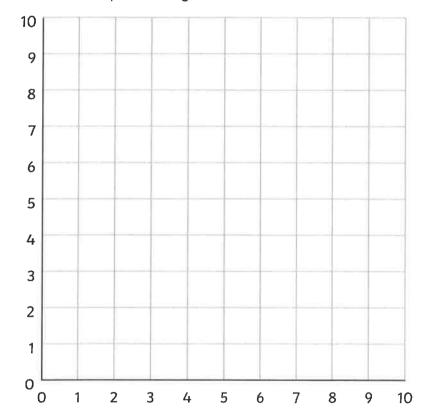
6. Some children from two Year 5 classes collect some money for Sport Relief by running around the playground and getting their parents to sponsor them. The amounts collected by each class are £36.27 and £42.89.

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



2 marks

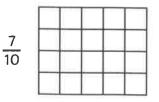
7. Here are the coordinates for a shape drawn on a coordinates grid: (1,2) (9,2) (7,8) (3,8) Draw the shape on this grid.





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



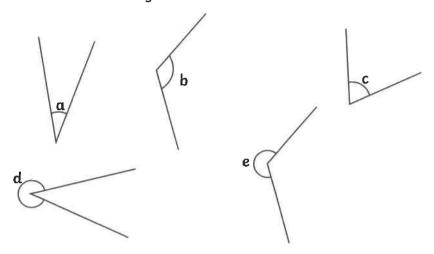




9.	Write a numbe	er between	one million	and two	million	with o	a digit 5	in the	hundred
	thousands pla	ce and a di	git 8 in the	tens plac	ce.				



10. Here are some angles:

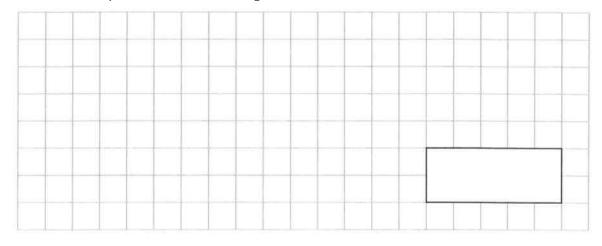


Complete the table below:

Name given to the angle	Angle
Acute	
Obtuse	
	d, e



11. Which 2 square numbers add together to make  $10^2$ ?



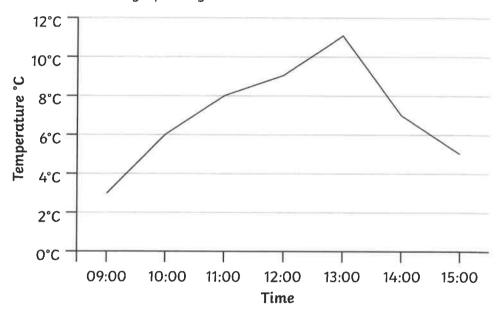


12. £2960 is shared among 1000 people. How much money does each person receive?



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 and 10:00 and 13:00?



b) Estimate the temperature at 13:30.



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

What is the temperature at 23:00?





isure	In ml	in litres	_
ıspoon	5ml		
20p0011	Jiitt		
ssert Spoon	Jiill		
ssert Spoon	Jiill		
ssert Spoon  bleSpoon  mpare the number  and 'three million  een', writing your  roup of children hem. 30% of a grou	rs 'three million and for four hundred and to answer in digits, using the constant of the choose an action of children choose for the choose of the choose o	ourteen thousand, three haree thousand, four hunding either the <, > or = significant size of the size	lred and gn. hool reward
ssert Spoon  pleSpoon  mpare the number  and 'three million  een', writing your  roup of children hem. 30% of a grou	rs 'three million and for four hundred and to answer in digits, using the constant of the choose an action of children choose for the choose of the choose o	hree thousand, four hunding either the $<$ , $>$ or $=$ significant $<$ or $=$ significant $<$ or $<$	lred and gn. hool reward

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?

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

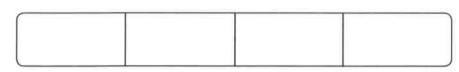
19. Order the following numbers from smallest to largest.

765 1000

smallest

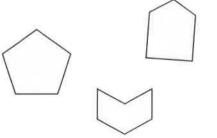
0.7

<u>75</u> 100

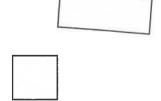




20. Circle the regular shapes.







largest