Name: Date:

24 total marks

Year 3 Reasoning Test Set 2 Paper B

1. a. What number is one hundred less than eight hundred and thirty-four? Write the answer in words.

1 mark

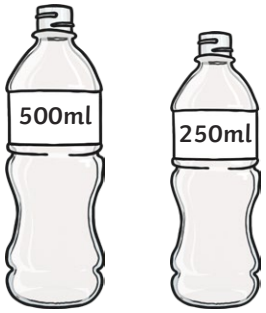
b. 215 is 100 less than what number?

1 mark

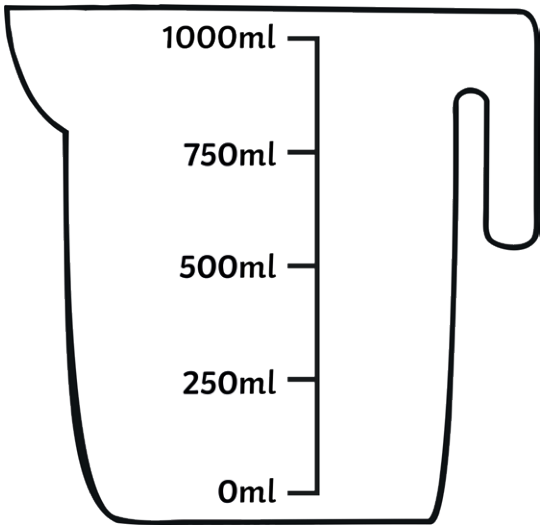
2. These diagrams show an equivalent fraction. Shade the second to match the first.

1 mark

3. Here are two bottles full of water.



The bottles are emptied into this jug. Draw the level of water in the jug.



1 mark

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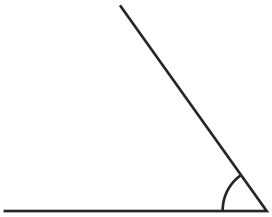
4. a. Tick the angle that is smaller than a right angle:



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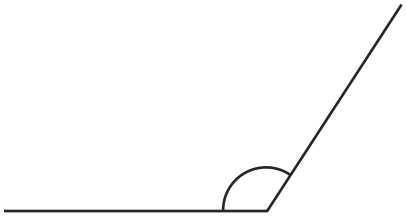

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1 mark

b. Use the line below to draw an angle that is larger than a right angle:

1 mark

5. Match the following numbers to the statement about place value:

499	The 9 represents the number of hundreds.
944	There are four tens.
494	There is a 9 in the ones place.

2 marks

6. Write the numbers you might use to estimate the answer to this calculation:

782 - 448 =

☐ - ☐ =

2 marks

total for this page

7. Yanek rolls a single die a number of times and records the number of times the die lands showing each number.

Number on die	Number of rolls
1	7
2	8
3	9
4	13
5	7
6	6

a. Which number was thrown the least number of times?

1 mark

b. How many times did Yanek roll the die?

1 mark

8. a. Which 3D shape matches this description?

"There are five faces. One face is a square. The other four faces are all equilateral triangles of the same dimensions. Each triangle is joined to one side of the square. The remaining sides of the triangles are joined to the adjacent triangle."

1 mark

b. Write a description for a cube.

1 mark

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9. Tick the calculations that are correct:

72 ÷ 3 = 24 ☐

62 ÷ 4 = 16 ☐

65 ÷ 5 = 13 ☐

2 marks

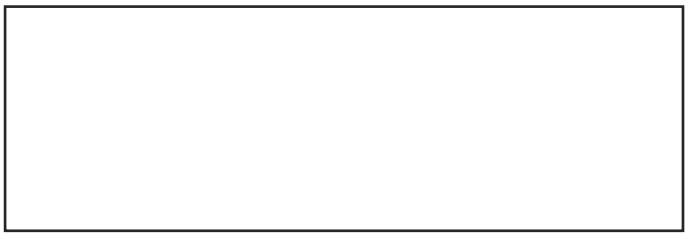
10. Write a month with 30 days and a month with 31 days:

_____ has 30 days.

_____ has 31 days.

2 marks

11. Measure the perimeter of this rectangle:



1 mark

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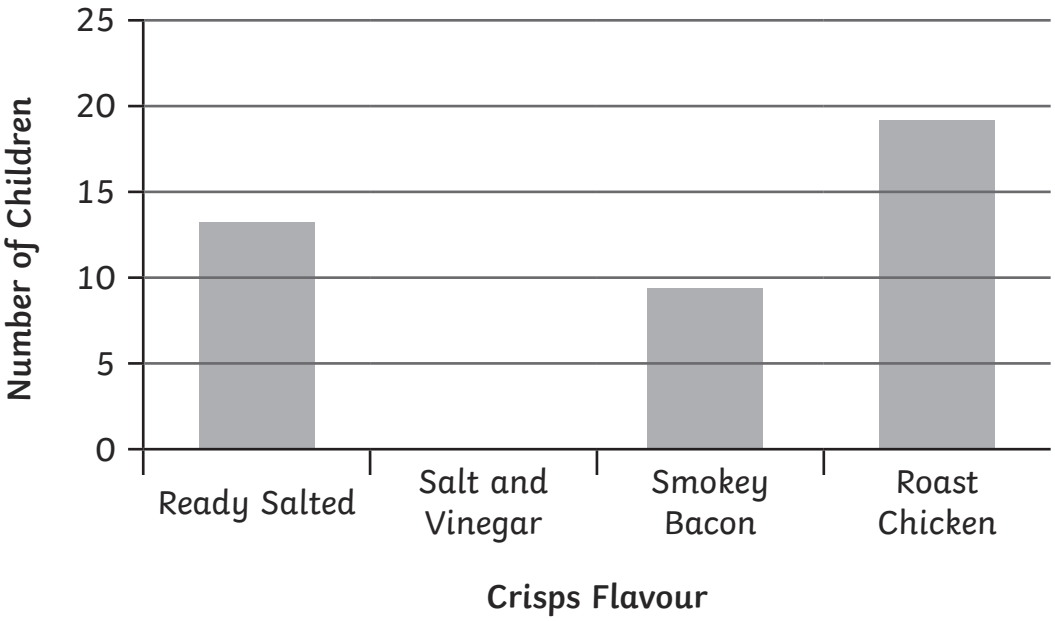
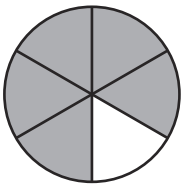
12. Some children collect information about their favourite flavour of crisps. They record the results in a table and draw a bar chart. Complete the table and bar chart.

Crisps flavour	Number of children
Ready Salted	
Salt and Vinegar	21
Smokey Bacon	9
Roast Chicken	19



2 marks

13. Write the fractions represented by these diagrams:



2 marks

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6

14. Draw a horizontal and vertical line with a ruler.

Horizontal	Vertical

1 mark

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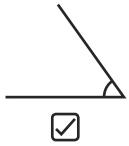
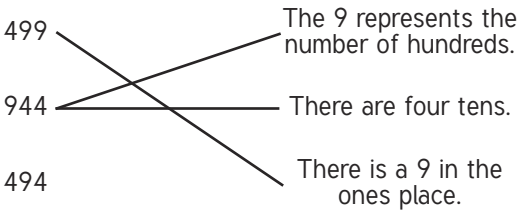
Question	Answer	Marks	Notes
1. What number is one hundred less than eight hundred and thirty-four? Write the answer in words.			
a	seven hundred and thirty-four	1	
b	315	1	
2. These diagrams show an equivalent fraction. Shade the second to match the first.			
	Any four boxes shaded to equal $\frac{4}{10}$	1	
3. Here are two bottles full of water.			
	750ml	1	
4. Tick the angle that is smaller than a right angle:			
a	 ☑	1	
b	Any angle drawn larger than a right angle	1	
5. Match the following numbers to the statement about place value:			
		2	
6. Write the numbers you might use to estimate the answer to this calculation:			
	782 can be 780, 790 or 800 448 can be 440 or 450	2	
7. Yanek rolls a single die a number of times and records the number of times the die lands showing each number.			
a	6	1	
b	50	1	
8. Which 3D shape matches this description?			
a	Square-based pyramid	1	1 mark for any reasonable answer which includes square and pyramid
b	"The shape has six square faces. Four of the squares are joined to each side of one other square, with two sides joined to the adjacent square. The final square is joined to the remaining sides of the four squares."	1	1 mark for any reasonable explanation. Answer must state there are six square faces.

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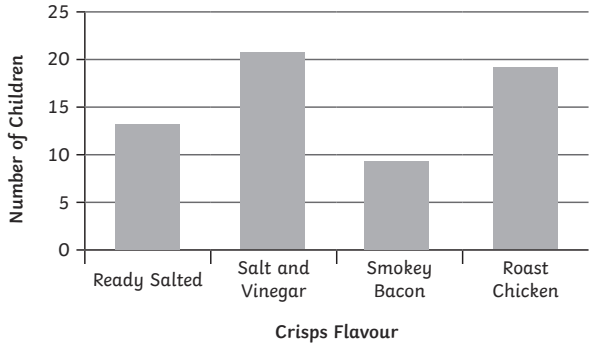
Question	Answer	Marks	Notes
9. Tick the calculations that are correct:			
	72 ÷ 3 = 24 ☑ 62 ÷ 4 = 16 ☐ 65 ÷ 5 = 13 ☑	2	2 marks for both correct and the middle one unticked 1 mark for only one ticked and correct, or all three ticked No marks for one correct and one incorrect
10. Write a month with 30 days and a month with 31 days:			
	30 days: April, June, September, November 31 days: January, March, May, July, August, October, December	2	1 mark for each.
11. Measure the perimeter of this rectangle:			
	24cm	1	Note the measurement will be correct if printed at 100%. The default for pdf files is usually 97%.
12. Some children collect information about their favourite flavour of crisps.			
	Crisps flavour / Number of children Ready Salted: **13** Salt and Vinegar: 21 Smokey Bacon: 9 Roast Chicken: 19  	2	1 mark for completing the table and 1 mark for drawing the bar (allow from 20 to 22 not including 20)
13. Write the fractions represented by these diagrams:			
	$\frac{5}{6}$ and $\frac{3}{8}$	2	1 mark for each
14. Draw a horizontal and vertical line with a ruler.			
	Horizontal: —— Vertical: |	1	1 mark for both correct. Allow a small degree of error.

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