

# Year 4

## Mathematics

Reasoning: Set 1 Test A

Name	
Date	



29

total marks

Name:

Date:

## Year 4 Maths Reasoning: Set 1 Test A



1. Continue these sequences.

a)

	18	27		45	54
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1 mark

b)

300	275	250	225		
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1 mark

2. Circle the fractions equivalent to  $\frac{1}{4}$ .

$\frac{2}{8}$     $\frac{4}{10}$     $\frac{3}{12}$     $\frac{1}{6}$

2 marks

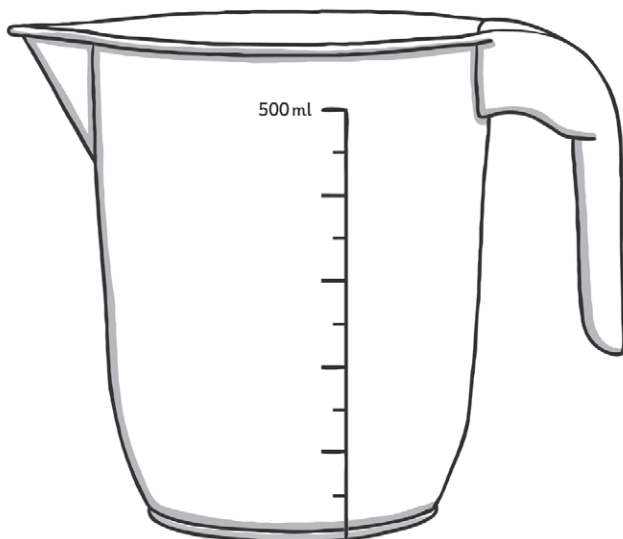
3.

$$\begin{array}{r} 3 \quad 4 \quad \square \\ + \quad \square \quad 1 \\ \hline 4 \quad 1 \quad 9 \end{array}$$

2 marks

4. Marcus needs to measure 225ml of milk for a recipe.

Draw a line on the jug to show 225ml.

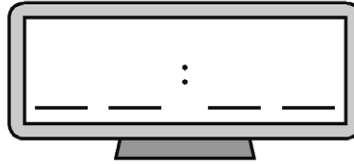
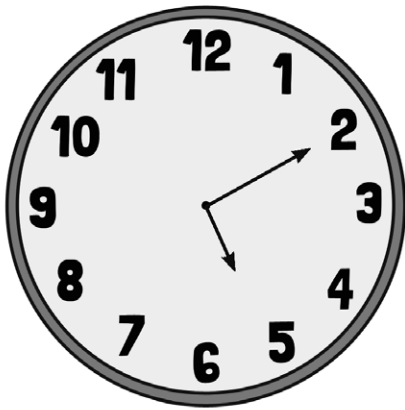


1 mark

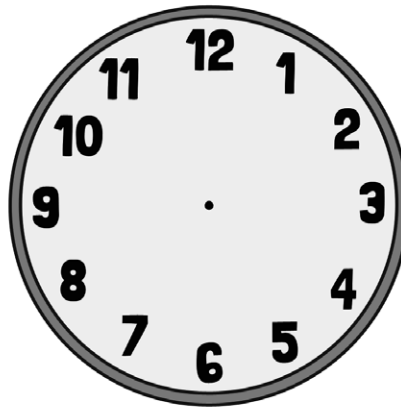
Total for this page

5.

a) Here is an analogue clock. Write the time on the digital clock.



b) Here is a digital clock. Draw the time on the analogue clock face.



1 mark

1 mark

6. A class of children collected information about which flavoured crisps children preferred. They collected the information in a table and presented it in a pictogram.

Complete the table and pictogram on the next page.

Flavour of Crisps	Number of Children
Ready Salted	
Salt n Vinegar	
Cheese and Onion	6
BBQ	

1 mark

Total for this page



= 2 children

Ready Salted	
Salt n Vinegar	
Cheese and Onion	
BBQ	

1 marks

7. Order the following numbers from smallest to largest.

1608, 816, 1086, 681

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smallest

largest

1 mark

8. For each of these questions, circle the calculation that will give the correct answer.

a) In four packets of felt pens there are 72 pens. There are six different colours equally shared among each pack. How many pens are there of each colour?

$72 \times 4$

$72 \div 6$

$72 \div 4$

$72 \times 6$

1 mark

b) An order is placed for nine packets of pencil sharpeners. Each packet costs 58p and contains 15 sharpeners. How many sharpeners are ordered?

$58 \times 9$

$58 \div 9$

$15 \times 58$

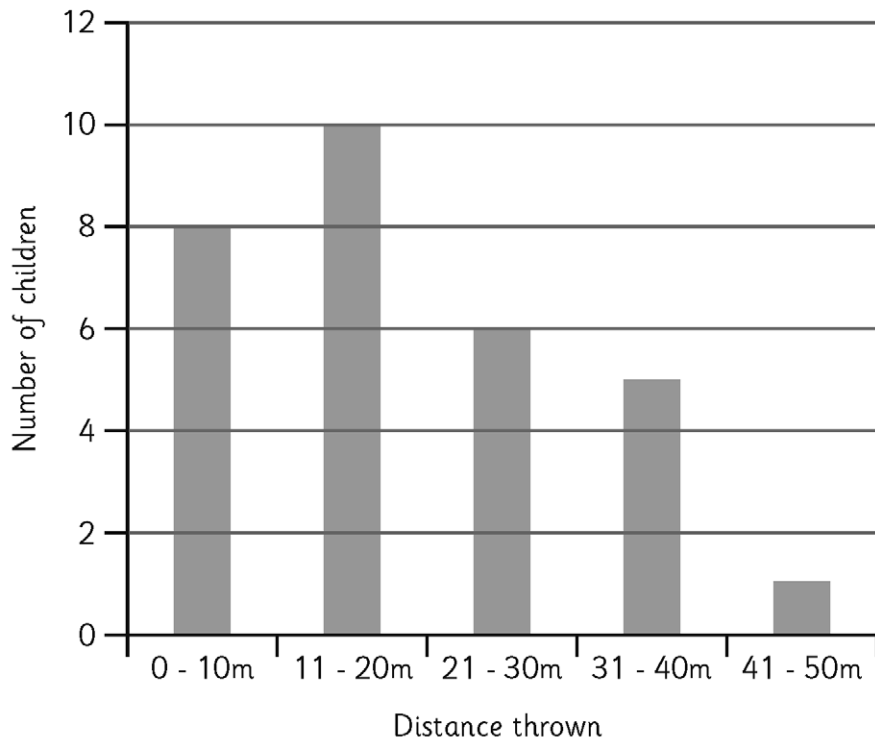
$9 \times 15$

1 mark

Total for this page



13. A class of children take part in a throwing a tennis ball competition. They record the results in the following bar chart.



a) How many children's results are recorded in the chart?

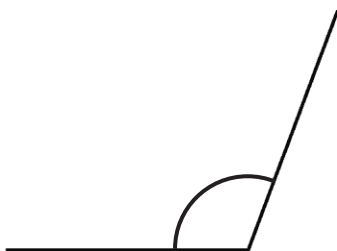


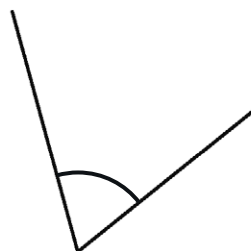
b) How many children threw the ball more than 20 metres?

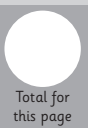


14.

a) Here are 2 angles. Label the angles either acute or obtuse.

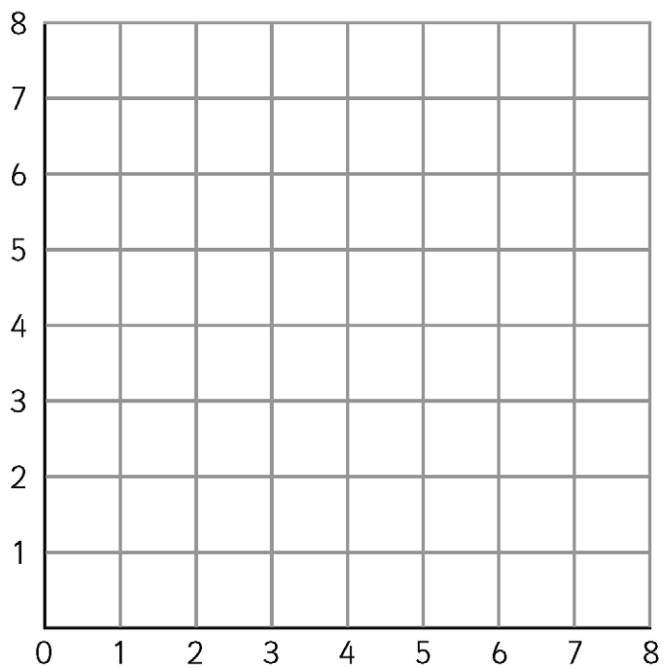








17. Plot the following square in this coordinates grid: (3,1) (7,3) (5,7) (1,5)

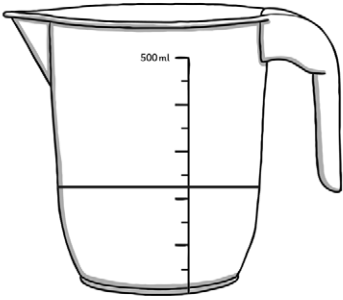



2 marks

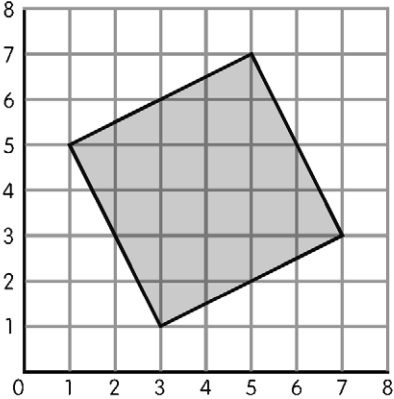


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this page



question	answer	marks	notes										
<b>1. 4N1: Count in 9s and 25s.</b>													
a	9, 36	1											
b	200, 175	1											
<b>2. 4F2: Match common equivalent fractions.</b>													
	$\frac{2}{8}$ and $\frac{3}{12}$	2	1 mark for each. 1 mark lost for any incorrect.										
<b>3. 3C2: Missing number addn 3 + 2 digit.</b>													
	$\begin{array}{r} 348 \\ +71 \\ \hline \end{array}$	2	1 mark for each.										
<b>4. 3M2c: Volume of liquid in a jug.</b>													
		1											
<b>5. 4M4b: Analogue to digital clock and vv.</b>													
a	05:10 or 5:10 or 17:10	1											
b		1	The hour hand should be just over half way between 11 and 12, however allow some margin of error. No mark if the hour hand is on the 11 or 12.										
<b>6. 3S1: Table from pictogram.</b>													
a	<table border="1" data-bbox="284 1749 740 2011"> <thead> <tr> <th>Flavour of Crisps</th> <th>Number of Children</th> </tr> </thead> <tbody> <tr> <td>Ready Salted</td> <td>12</td> </tr> <tr> <td>Salt n Vinegar</td> <td>9</td> </tr> <tr> <td>Cheese and Onion</td> <td>6</td> </tr> <tr> <td>BBQ</td> <td>13</td> </tr> </tbody> </table> <p><b>Pictogram:</b> 3 packets drawn in Cheese and Onion column</p>	Flavour of Crisps	Number of Children	Ready Salted	12	Salt n Vinegar	9	Cheese and Onion	6	BBQ	13	2	1 mark for correctly counting the 3 columns as 12, 9 and 13 1 mark for drawing 3 packets of crisps. All 3 packets should be roughly the same size.
Flavour of Crisps	Number of Children												
Ready Salted	12												
Salt n Vinegar	9												
Cheese and Onion	6												
BBQ	13												

question	answer	marks	notes
<b>7. 4N2:</b> Order 3 and 4 digit numbers.			
	681, 816, 1086, 1608	1	
<b>8. 3C7:</b> Choose a calculation for word problems.			
a	$72 \div 6$	1	
b	$9 \times 15$	1	
<b>9. 3G2:</b> Horizontal and vertical lines.			
		1	
<b>10. 4N3b:</b> Roman numerals to 100.			
	74	1	
<b>11. 3C8:</b> Word problem integer scaling.			
	£27	1	1 mark for a correct method but 1 mistake in calculating.
<b>12. 4F9:</b> Ring answers to divide by 10 and 100.			
a	3.4	1	
b	5.91	1	
<b>13. 4S1:</b> Continuous data bar graph.			
a	30	1	
b	12	1	
<b>14. 4G4:</b> Order and identify acute /obtuse.			
a	obtuse and acute	1	
b	bca	1	

question	answer	marks	notes									
<b>15. 4M1:</b> <, =, > with money and measures.												
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 2px;">£1.64</td> <td style="padding: 2px; text-align: center;">=</td> <td style="padding: 2px;">164p</td> </tr> <tr> <td style="padding: 2px;">600ml</td> <td style="padding: 2px; text-align: center;">&gt;</td> <td style="padding: 2px;">half a litre</td> </tr> <tr> <td style="padding: 2px;">0.5kg</td> <td style="padding: 2px; text-align: center;">&gt;</td> <td style="padding: 2px;">75g</td> </tr> </table>	£1.64	=	164p	600ml	>	half a litre	0.5kg	>	75g	2	2 marks for 3 correct 1 mark for 2 correct
£1.64	=	164p										
600ml	>	half a litre										
0.5kg	>	75g										
<b>16. 4F10b:</b> Money problem 2 decimal places.												
	£12.52	2	2 marks for correct answer 1 mark for an answer that is incorrect by the value of 1 coin (e.g. £12.51, £12.50, £12.47, £12.42, £12.32, £12.02, £11.52, £10.52)									
<b>17. 4P3:</b> Plot a shape in a co-ordinates grid.												
		2	2 marks for correct answer 1 mark for 3 correct corners  Allow small error on drawing corners to lines.									
		Total 29										