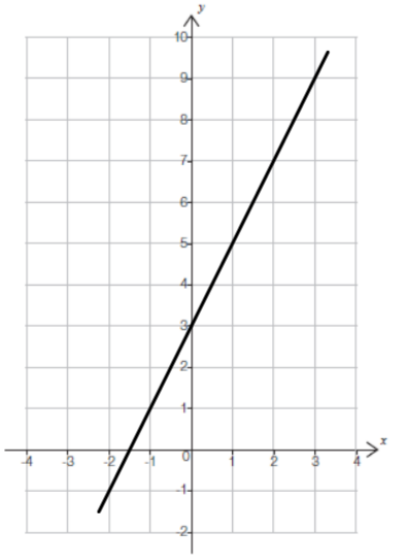
Year 8 Autumn Foundation Paper A

Question	Answer	Marks	Notes and guidance
1	Point plotted at (4, 3)	1	
	(0, 5)	1	
2	40	1	
3	$\frac{2}{3}$ $\frac{1}{9}$	1 1	Accept any equivalent form Accept any equivalent form
4	3 : 1 3 : 5 : 4	1 1	
	21	1	
5	42 (m)	1	Allow just 42, but do not allow 42 cm
	6 (cm)	1	Allow just 6, but do not allow 6 m
6	$(5, \mathbf{10})$ $(\mathbf{-3}, -6)$	1 1	
7	Adam £7 Zak £28	2	Allow 1 mark for £7 seen as one 'share'

Year 8 Autumn Foundation Paper A

<table>
<tr><td rowspan="4">8</td><td>Calculation completed correctly i.e.
$4 \times \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$</td><td>1</td><td></td></tr>
<tr><td>$2\frac{1}{4}$</td><td>2</td><td>Award 1 mark for $\frac{9}{4}$</td></tr>
<tr><td>12</td><td>1</td><td></td></tr>
<tr><td>6</td><td>1</td><td></td></tr>
<tr><td>9</td><td>Completes table correctly
<table><tr><th>Shoe size</th><th>Tally</th><th>Frequency</th></tr><tr><td>5</td><td>𝍸</td><td>5</td></tr><tr><td>6</td><td></td><td>0</td></tr><tr><td>7</td><td>𝍸 I</td><td>4</td></tr><tr><td>8</td><td>III</td><td>3</td></tr></table></td><td>2</td><td>Award 1 mark for 2 or 3 correct values OR all tallies correct but frequency column not completed</td></tr>
<tr><td rowspan="3">10</td><td>$\frac{2}{9}$</td><td>1</td><td>Allow any equivalent form</td></tr>
<tr><td>$\frac{2}{3}$</td><td>1</td><td>Allow any equivalent form</td></tr>
<tr><td>2 : 1</td><td>1</td><td>Correct answer only, must be simplified</td></tr>
<tr><td rowspan="2">11</td><td>12</td><td>1</td><td></td></tr>
<tr><td>5</td><td>1</td><td></td></tr>
<tr><td rowspan="2">12</td><td>24</td><td>1</td><td></td></tr>
<tr><td>7</td><td>1</td><td></td></tr>
<tr><td rowspan="2">13</td><td>80</td><td>1</td><td></td></tr>
<tr><td>Accept anywhere between 44 and 45 inclusive</td><td>1</td><td></td></tr>
</table>

Year 8 Autumn Foundation Paper A

<table>
<tr><td rowspan="3">14</td><td>Completes table correctly i.e.
<table><tr><th></th><th>Walk</th><th>Bus</th><th>Total</th></tr><tr><td>Boys</td><td>27</td><td>19</td><td>46</td></tr><tr><td>Girls</td><td>13</td><td>41</td><td>54</td></tr><tr><td>Total</td><td>40</td><td>60</td><td>100</td></tr></table></td><td>2</td><td>Award 1 mark for 2 or 3 values correct</td></tr>
<tr><td>$\frac{27}{50}$ or equivalent</td><td>1</td><td>e.g. 54%, $\frac{54}{100}$, 0.54</td></tr>
<tr><td>$\frac{13}{54}$</td><td></td><td></td></tr>
<tr><td rowspan="2">15</td><td>Completes table correctly: -1, 3, 5 and 9</td><td>2</td><td>Award 1 mark for 2 or 3 values correct</td></tr>
<tr><td>Draws correct graph
  </td><td>2</td><td>Award 1 mark for plotting all their co-ordinates correctly</td></tr>
</table>

16	1, 3 and 9	1	In any order
	$\frac{3}{8}$	1	Accept any equivalent form e.g. 0.375, 37.5% Follow through from their set B – e.g. if only members listed, award mark for $\frac{2}{8}$ or any equivalent form

Year 8 Spring Foundation Paper

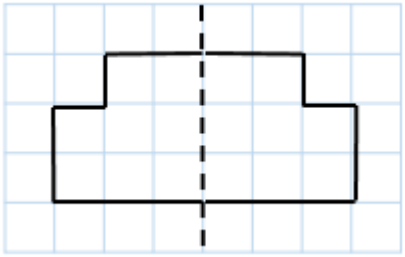
Question	Answer	Marks	Notes and guidance
1	Indicates 20%	1	Allow slight error provided intention is clear
	£6	2	Award 1 mark for fully correct method to find 20%
2	4	1	
	8	1	
	$10x + 5$	1	
3	Plots both points correctly	2	Award 1 mark for each correct point
	Indicates (-3, -3) and (3,3) and no extras	1	Accept any clear indication – circled, underlined, ticked etc.
4	Writes 7 in final column Draws 10 dots in correct pattern in first column	2	1 mark for each
	19	1	
5	£16.10	3	Award 1 mark for attempt to multiply 84p by 3 and add the result to £1.38 with consistent units Award 1 mark for attempt to subtract their total from £20
	£24 or 2400p	2	Accept £24.00, but not £24.0 Award 1 mark for clear attempt at 30×80 p or equivalent
6	$y > 8$	1	Must have correct inequality signs, not = If neither mark earned, award 1 mark for both 8 and 12 seen regardless of signs.
	$x < 12$	1	

Year 8 Spring Foundation Paper

7	$a \times a \times a$ $3a - 12$ $a + 8$	3	1 mark each
8	78 78	2	1 mark each Follow through their answer $\frac{x}{50}$ for second mark
9	2.9 m or 290 cm	2	Award 1 mark for correct method to find perimeter
10	1 : 5	2	Award 1 mark for 2 kg = 2000 g seen or implied
11	Chooses 12 increased by $\frac{1}{3}$ with justification e.g. $\frac{1}{3}$ of 12 = 4, 25% of 12 = 3	2	Award 1 mark for at least one correct relevant calculation
	91	2	Award 1 mark for complete correct method with one arithmetical error
	$\frac{15}{28}$	1	Accept equivalent fractions
12	18	1	
	Gives reason e.g. • The top marks could both be 41 (or 42 etc.) • We only know the top mark is between 41 and 50 (condone 40)	1	
	$\frac{2}{29}$	1	

13	6×10^5	1	
	7×10^{-3}	1	
	Indicates 6.2×10^5 Indicates 8×10^{-2}	1 1	1 mark for each. Accept any clear indication – circled, underlined, ticked etc.

Year 8 Summer Foundation Mark Scheme

Question	Answer	Marks	Notes and guidance
1	Draws both lines of symmetry on the rectangle, and no extras	2	Allow slight inaccuracy provided intention is clear. Award 1 mark either line with no extras of both lines and diagonal(s) also drawn
	Completes shape correctly i.e. 	2	Award 1 mark for error in one point only
2	$3x + 15$	1	
	10	2	Award 1 mark for correct first step e.g. $4x = 40$ or $x + 5 = 15$
	$y > 20$ or $20 < y$	2	Award 1 mark for correct first step e.g. $40 < 2y$ or $15 < y - 5$
3	30	1	
	15	1	
	Draws two and a half circles for Friday	1	

Year 8 Summer Foundation Mark Scheme

4	Puts cross at $\frac{1}{2}$ on probability scale	1	
	$\frac{1}{4}$ or equivalent	1	Allow e.g. 25%, 0.25, $\frac{2}{8}$ etc.
5	Completes table correctly 3 (6) 9 (4) 7 (11) 7 13 (20)	2	Award 1 mark for correct first step i.e. either 7 blue pencils or 9 pens in total
6	8	1	
	44	1	
7	3600	2	Award 1 mark for attempt at 60×60
	4500	2	Award 1 mark for rounding to 50×90 or 50 x 100
8	2	1	
	Draws bar of height 5 miles in correct place for Thursday	1	Ignore any shading
	4	1	
	5	1	
9	Isosceles	1	Ignore spelling slips if intention is clear
	36	2	Award 1 mark for $\frac{1}{2} \times 12 \times 6$ or equivalent calculation seen
10	47	1	
	Indicates 100	1	

Year 8 Summer Foundation Mark Scheme

11	$\frac{1}{3}$	2	Award 1 mark for any correct equivalent fraction e.g. $\frac{15}{45}, \frac{3}{9}$ etc.
12	5 : 2	1	
	8 cm	2	Must include correct units for 2 marks. Award 1 mark for correct method e.g. sight of $20 \div 5 \times 2$ or just 8.
13	60	1	
	130	1	
	145	2	Award 1 mark for using either opposite angles of a parallelogram are equal or angles in a straight line add up to 180°