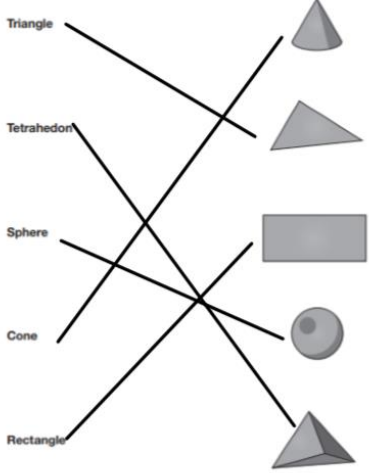
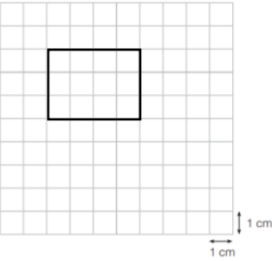
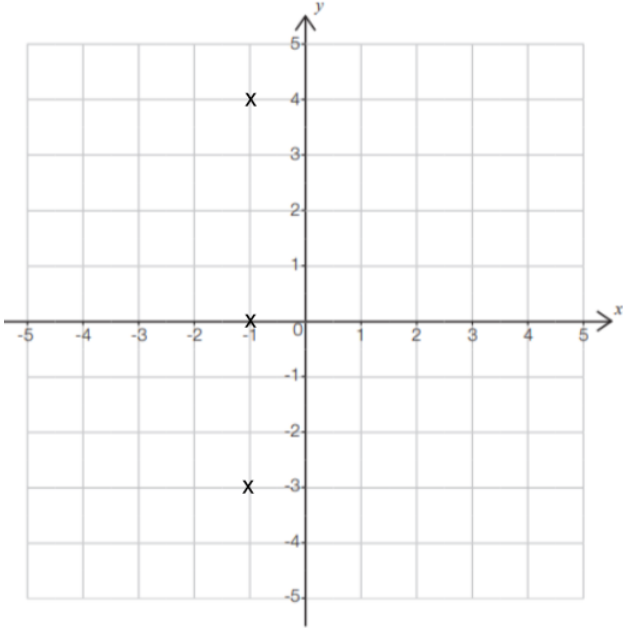


# Year 9 Autumn Foundation Mark Scheme A

Question	Answer	Marks	Notes and guidance
1	<p>Matches shapes to labels correctly</p> 	2	Award 1 mark for at least two correct.
2	16 or 64	1	Allow both.
	13 or 3	1	Allow both.
3	<p>Draws correct diagram e.g.</p> 	2	<p>Could be in any orientation.</p> <p>Allow 1 mark for a rectangle with at least one correct side drawn on the grid.</p>

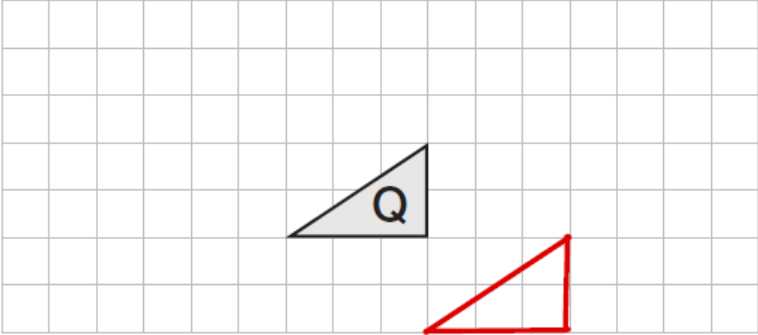
# Year 9 Autumn Foundation Mark Scheme A

4	Indicates 2, 5 and 6 and no extras	2	Accept any clear indication – circle, underlined etc. Award 1 mark for any 2 correct values and no extras OR all 3 correct and one extra
5	Plots the three points correctly 	2	Award 1 mark for any 2 correct points.
	$x = -1$	1	
6	States both values are equal to 6 and says they are equal	2	Award 1 mark for sight of 6 e.g. $6 = 6$
7	9	1	
7	5	1	
7	6	2	Award 1 mark for correct first step e.g. $2y = 12$ or $y + 3.5 = 9.5$

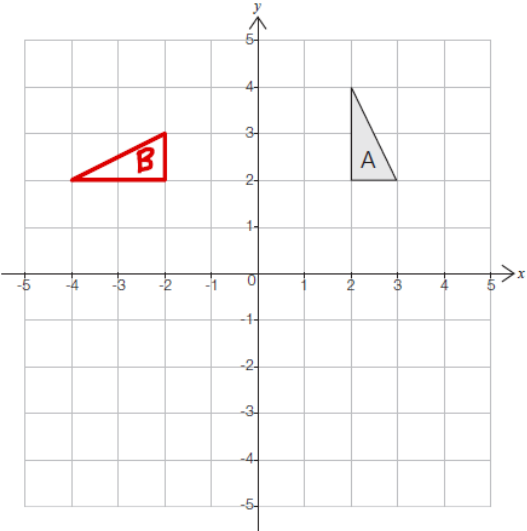
## Year 9 Autumn Foundation Mark Scheme A

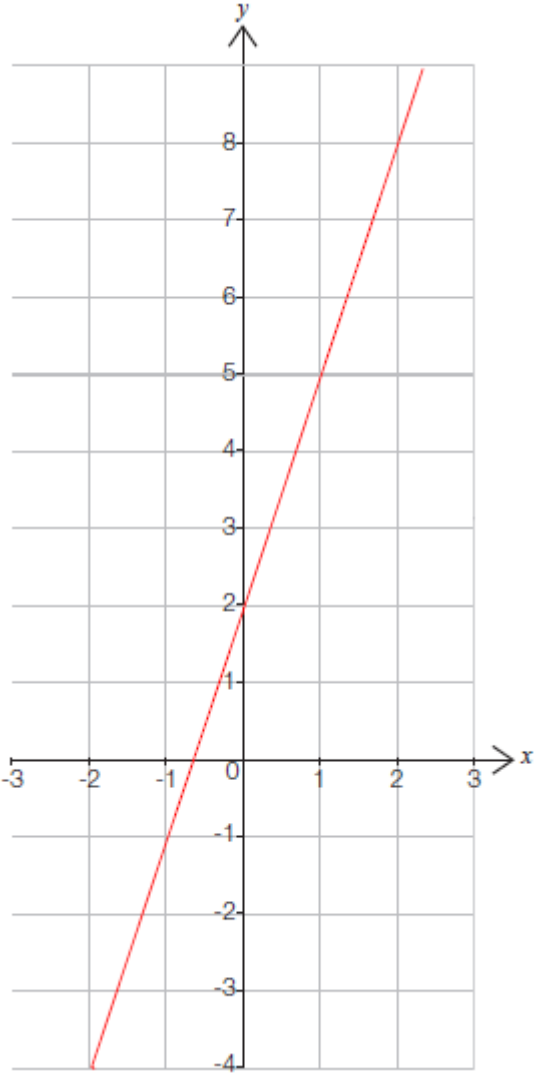
8	She has read the wrong scale on the protractor	1	Any reasonable explanation. Allow "It should be 55"
	140	1	Allow $\pm 2^\circ$
9	Completes the table with $-7$ , $-3$ and $-1$	2	Award 1 mark for any 2 correct values.
	Plots graph correctly i.e. straight line from $(-2, -7)$ to $(3, 3)$	2	Award 1 mark for 4 or more of their points plotted correctly.
10	10	1	
	A and C or D and E	1	Allow both.
11	6	1	
	150	1	
	1000 cm <sup>3</sup>	2	Award 1 mark if either 1000 or cm <sup>3</sup> correct..
12	5	2	Award 1 mark for correct substitution of 5 and 8 into the formula.
13	Circle centre C radius 4 cm drawn	2	Allow $\pm 2$ mm for the radius.
			Award 1 mark for any attempt at a circle centre C.
14	e.g. $5 \neq 3 + 4$	1	Any reasonable explanation e.g. "It should be $(3, 7)$ ", "It should be $(1, 5)$ " etc.
15	Angle bisected correctly, with construction lines shown.	2	Award 1 mark for evidence of correct method.
16	9	2	Award 1 mark for any complete correct method to find the area.
	7200	2	Award 1 mark for attempting to multiply their area by 800

# Year 9 Spring Foundation Paper Mark Scheme

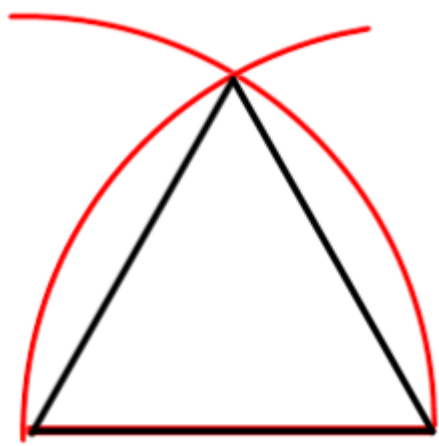
Question	Answer	Marks	Notes and guidance
1	40	2	Award 1 mark for any complete method e.g. attempt to find $34 - 13 + 19$ or $34 + (19 - 13)$
2	29.95	2	Award 1 mark for any correct method e.g. attempt to multiply 5.99 by 5, subtract 5p from $5 \times 6$ etc.
3	Cone	1	
	6	1	
	12	1	
	8	1	
4	0.039, $\frac{3}{10}$ , 0.31, 35%	2	Award 1 mark for evidence of converting all the numbers to the same format OR correct answer in reverse order
5	£735	3	Award 1 mark for attempt to find 30% of £1050 Award 1 mark for subtracting their 30% from £1050
6		2	Award 1 mark for any translation that is both to the right and down, OR for 2 out of 3 vertices correctly translated.

# Year 9 Spring Foundation Paper Mark Scheme

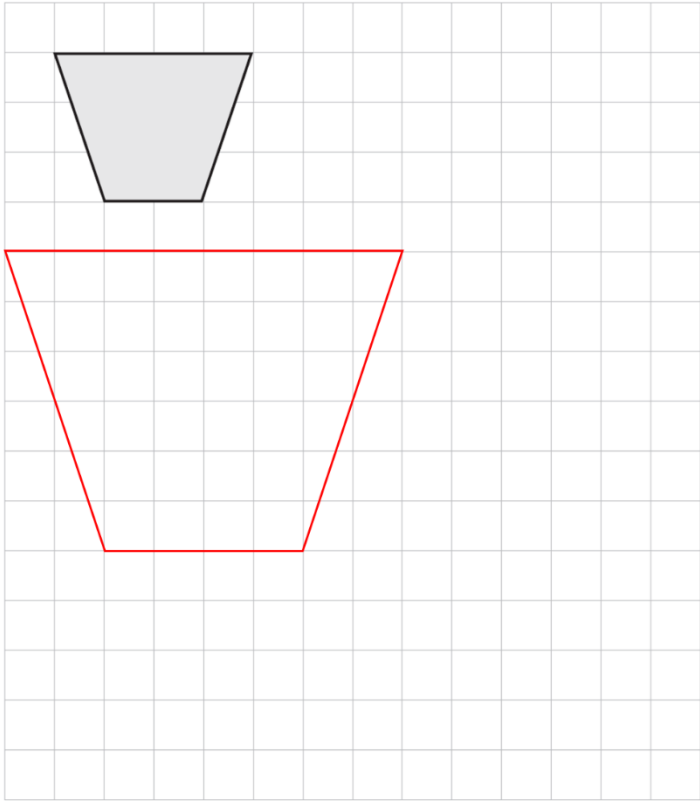
7	100 <b>Angles on a straight line add up to 180°</b>	2	Award 1 mark for 100 and 1 mark for the reason. Reason must include words in bold
	<b>Alternate angles are equal</b>	1	Reason must include words in bold
	<b>Vertically opposite angles are equal</b>	1	Reason must include words in bold
8	10	2	Award 1 mark for correct first step e.g. $4m = 40$ or $m - 1.25 = 8.75$
	6	2	Award 1 mark for correct first step e.g. $\frac{d}{2} = 3$ or $d + 2 = 8$
9		2	Award 1 mark for rotation of A by 90° about any point

<p>10</p>		<p>4</p>	<p>Award 1 mark for attempt to find coordinates using the correct equation                  Award 2<sup>nd</sup> mark for at least 2 correct coordinates seen or implied by the graph                  Award 1 mark for correctly plotting at least two points from their table of values or list                  Award 4<sup>th</sup> mark for completely correct line from at least <math>(-2, 2)</math> to <math>(2, 8)</math></p>
<p>11</p>	<p><math>\frac{1}{12}</math></p>	<p>1</p>	<p>Accept any equivalent exact form</p>

# Year 9 Spring Foundation Paper Mark Scheme

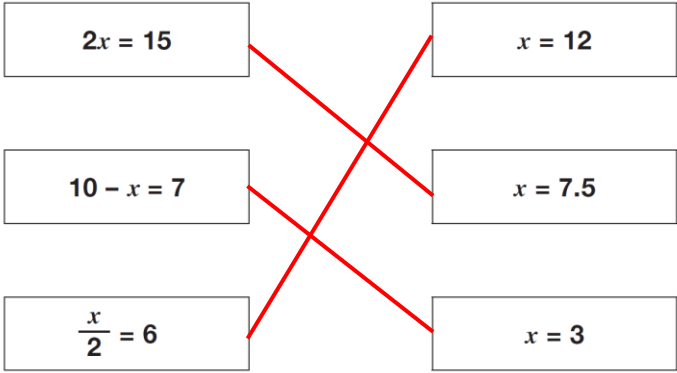
12	-8	1	
	2	1	
	15	1	
13	$\sqrt{3^2 + 4^2} = \sqrt{25} = 5$	2	Award 1 mark for $\sqrt{3^2 + 4^2}$ Award 2 <sup>nd</sup> mark for complete working Allow $\sqrt{3^2 + 4^2} = 5$
14	2300	3	Award 1 mark for any correct method of finding 5% of 2000 Award 2 <sup>nd</sup> mark for multiplying their 5% of 200 by 3
15	e.g. 	2	Award 1 mark for one arc drawn correctly at 6cm from either end of given line segment.

# Year 9 Summer Foundation Paper Mark Scheme

Question	Answer	Marks	Notes and guidance
1	Cone	1	
2	£18	1	
	£162	1	Follow through 90% of their £180
	£27	1	Follow through their £162 ÷ 6
3		2	<p>Accept correct answer anywhere on the grid in any orientation</p> <p>Award 1 mark for correct enlargement with different scale factor</p>



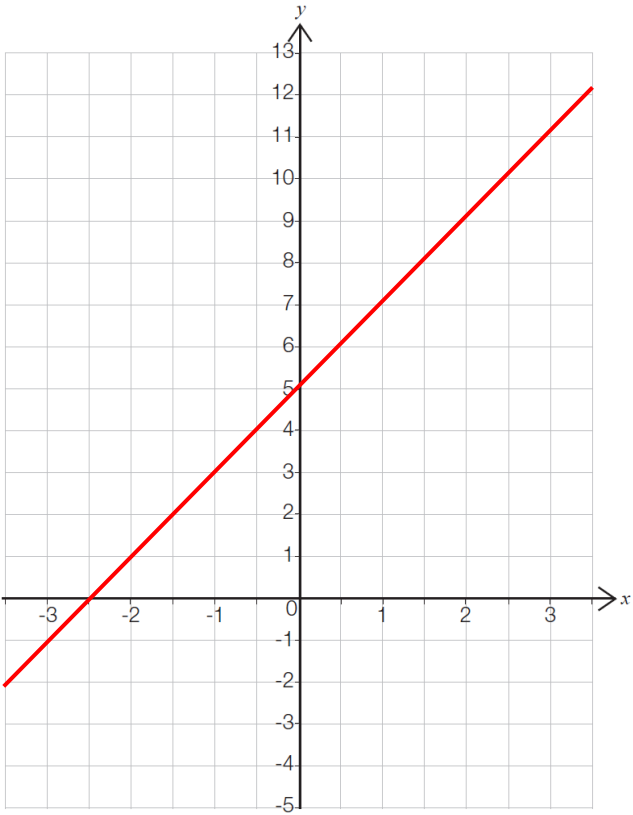
# Year 9 Summer Foundation Paper Mark Scheme

4		2	Award 1 mark for at least one correct match
5	e.g. "Yes, because all multiples of 5 end in a 5 or 0"	1	Accept Yes with any correct explanation. Do not accept Yes with no or incorrect explanation.
5	e.g. "Yes, because her number is even as it ends in 0"	1	Accept Yes with a correct explanation. Do not accept Yes with no or incorrect explanation.
6	e.g. "There should be six faces"	1	Accept any correct explanation. Do not accept incomplete explanations that do not indicate that a cuboid should have six faces e.g. "There aren't enough faces"

# Year 9 Summer Foundation Paper Mark Scheme

6 ctd.			Accept any correctly placed $2 \times 3$ rectangular face
	18	1	
7	4	1	
	-8	1	
8	500	2	Award 1 mark for $3000 \div 6$ seen or implied.
9	69	2	Award 1 mark for $6 \times 11.5(0)$ seen or implied.

# Year 9 Summer Foundation Paper Mark Scheme

10	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="background-color: #cccccc;"><math>x</math></td> <td>-3</td> <td>-2</td> <td>-1</td> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td style="background-color: #cccccc;"><math>y</math></td> <td>-1</td> <td>1</td> <td>3</td> <td>5</td> <td>7</td> <td>9</td> <td>11</td> </tr> </table>	$x$	-3	-2	-1	0	1	2	3	$y$	-1	1	3	5	7	9	11	1	
	$x$	-3	-2	-1	0	1	2	3											
$y$	-1	1	3	5	7	9	11												
		2	Award 1 ft mark for correctly plotting all points from their table of values																
11	7 cm	2	Award 1 mark for correctly finding scale factor between DEFG and PQRS is 3																
	80	1																	

# Year 9 Summer Foundation Paper Mark Scheme

12	Any one of: p and r, r and t, p and t, q and s	1	
	Any one of: p and q, r and s, s and t, p and s, r and q, t and q	1	
13	32	2	Award 1 mark for $40 \times 0.8$ seen or implied
14	$\begin{pmatrix} -7 \\ 5 \end{pmatrix}$	2	Award 1 mark for one of the horizontal or vertical components correct, or fully correct description in words e.g. "7 left and 5 up"
15	C with correct working e.g. 3 kg of bag A = £5.25, 3 kg of bag = £5, 3 kg of bag C = £4.80 <b>OR</b> Bag A = 17.5 p per 100 g, Bag B = 16.6p per 100 g, Bag C = 16p per 100g <b>OR</b> Bag A = 5.7g per penny, Bag B = 6g per penny, Bag C = 6.25g per penny etc.	3	Award 1 mark for finding one correct process so that a comparison can be made between two bags Award 2 <sup>nd</sup> mark for correct conversions so that all three bags can be compared. Award full marks for fully correct answer with correct justification shown in working.
16	10 cm	2	Award 1 mark for $\sqrt{6^2 + 8^2}$ seen or implied.
17	Indicates $\frac{1}{2} \times \frac{1}{6}$	1	Accept any clear indication, tick, circled underlined etc.
18	c. -3.7	1	Allow $\pm 0.1$
	c. -1.3 and c. 3.4	2	Allow $\pm 0.1$ Award 1 mark for either value found or $y = 1.5$ drawn