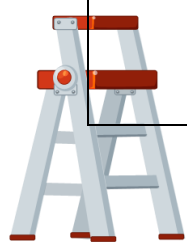

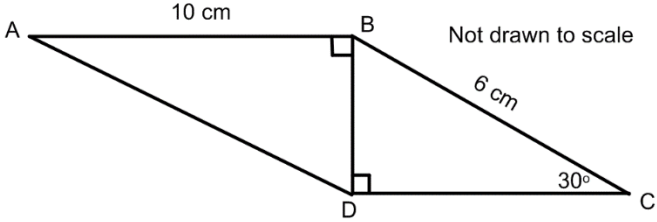
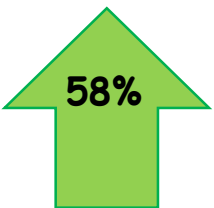


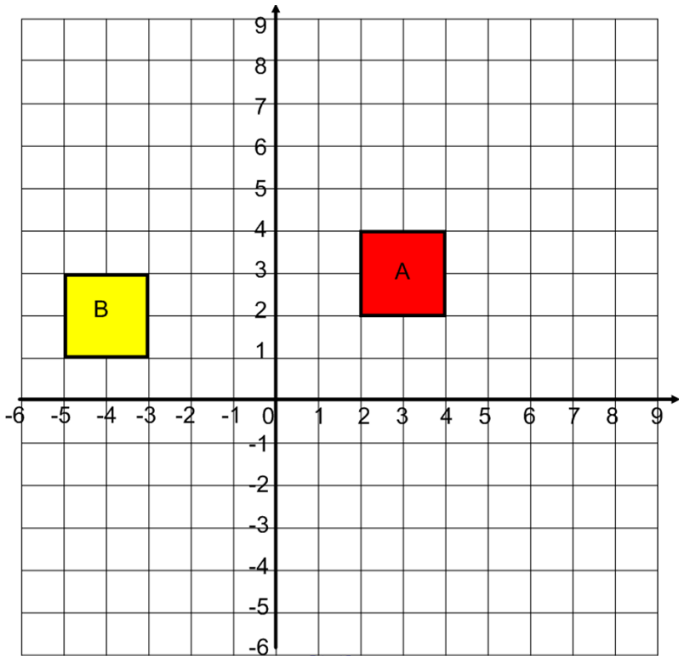
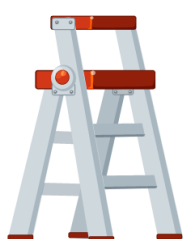
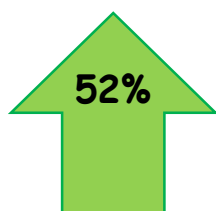


Percentage	I can ...	Prove it!
	<p>Solve problems with area and volume scale factors</p>	<p>Surface area = 9cm^2 Volume = 50cm^3</p> <p>A larger can has a surface area of 36cm^2, calculate the volume.</p>
	<p>Calculate area and volume scale factors</p>	<p>These quadrilaterals are similar. The area of the smaller quadrilateral is 20cm^2. Calculate the area of the larger quadrilateral:</p>
	<p>H5.2 I can apply trigonometry to problems in 3D</p>	<p>Calculate angle CEG: (Hint: You may have to also use Pythagoras)</p> <p>Calculate the height of the pyramid::</p>
	<p>H5.1 I can apply Pythagoras to problems in 3D</p>	<p>Calculate the length of the pencil; all measurements are given in cm.</p>



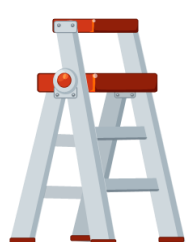
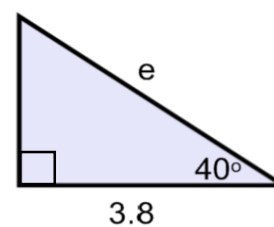
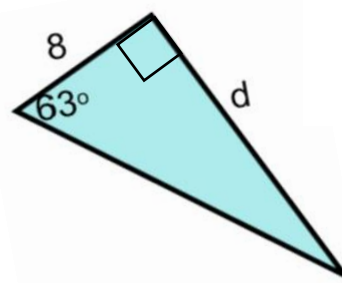
Percentage	I can ...	Prove it!
	<p>C5.5 I can use and apply exact values for trig ratios</p>	<p>Find the area of the quadrilateral ABCD</p> 
	<p>11.1 I can find exterior angles in a regular polygon</p>	<p>Ship A is 4.5 km due north of a lighthouse. Ship B is 3.7 km due east of the same lighthouse. What is the bearing of ship B from ship A?</p>  <p>Judy walks 1.6 km on a bearing of 050°. She then changes direction and walks 1.9 km on a bearing of 140°. On what bearing must she walk in order to return to her starting position?</p>
	<p>H4.1 I can combine transformations</p>	<p>Describe how to map A onto B:</p> <ul style="list-style-type: none"> • In 1 step • In 2 steps • In 3 steps: <ul style="list-style-type: none"> – Using at least 1 reflection – Using at least 1 rotation – Using at least 1 translation 


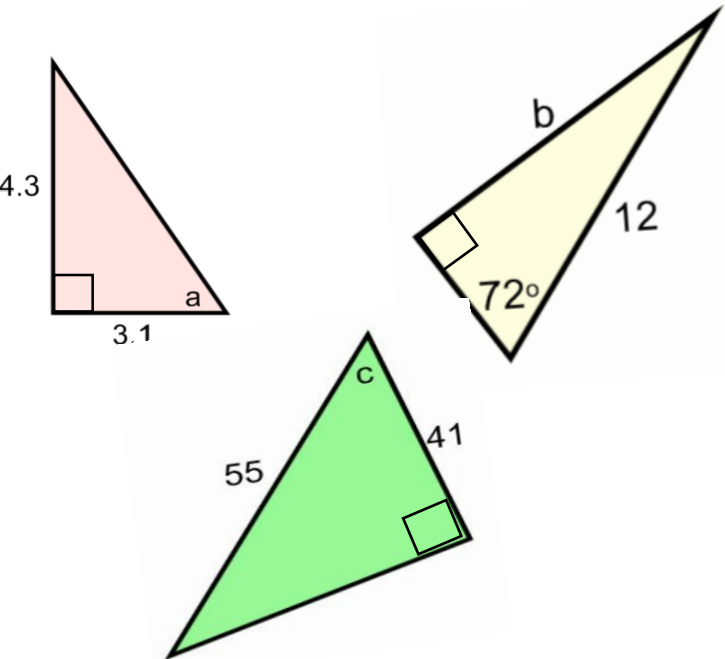

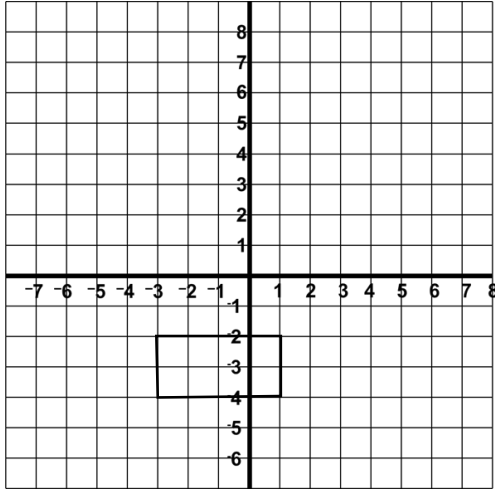
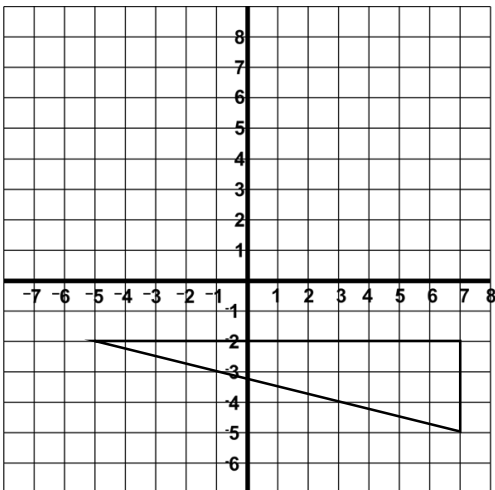


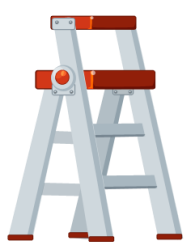


C5.3 I can use trig ratios to calculate missing sides and angles

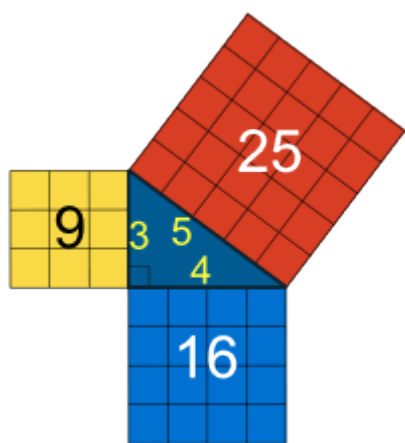
Find the missing sides and angles in the triangles below:



Percentage	I can ...	Prove it!
	<p>C5.2 I can identify which trig ratio to apply to solve a problem</p>	<p>For the triangles below, determine which of the three trigonometric ratios you would use to calculate the missing side or angle. You may find it helpful to label the sides.</p> 
	<p>C4.1 I can enlarge a from a given centre</p>	<p>Enlarge the shape below by a scale factor of 2 from the point (-4, -5)</p>  <p>Enlarge the shape below by $\frac{1}{3}$ from point (7,1)</p>  <ul style="list-style-type: none"> Enlarge the rectangle above by $-\frac{1}{2}$ from the point (0,0)



Percentage	I can ...	Prove it!
	<p>C4.2 I can find missing sides and angles in similar shapes</p>	<p>a) Work out the missing length x</p>
	<p>I can enlarge a shape using a scale factor</p>	<p>Enlarge the rectangle below by a scale factor of a) 3 b) $\frac{1}{2}$</p>
	<p>C5.1 I can solve problems with bearings</p>	<p>Calculate the bearing of A from C</p>



Key Words

- Ratio
- Sine
- Cosine
- Tangent
- Pythagoras
- Adjacent
- Hypotenuse
- Similarity
- Scale Factor
- Bearing
- North
- Enlargement

