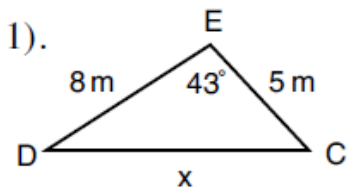
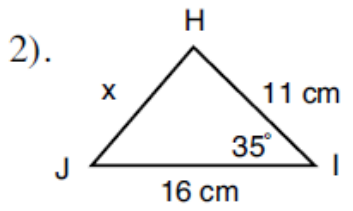
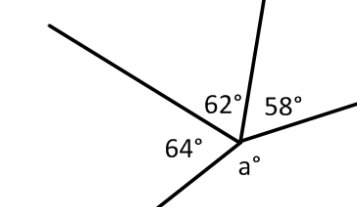
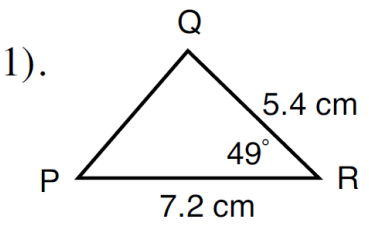
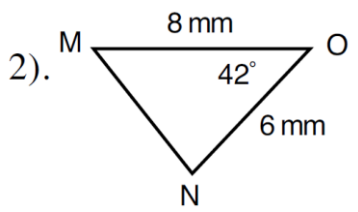
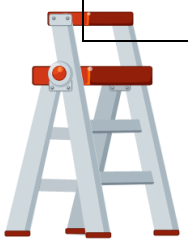
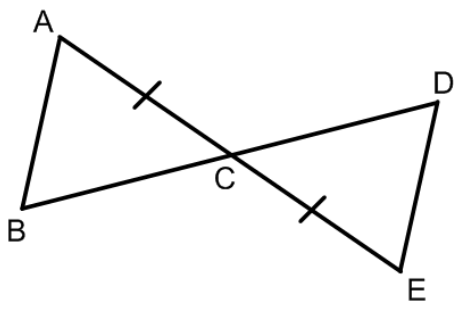
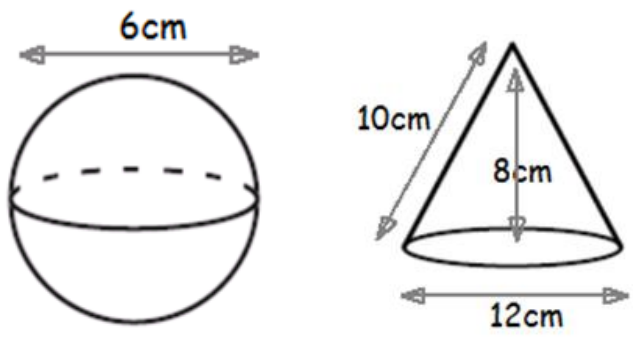
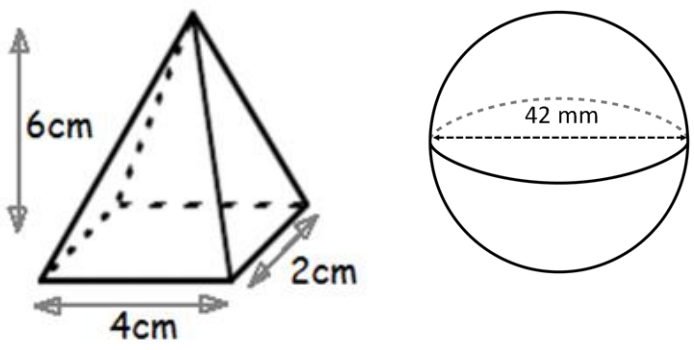
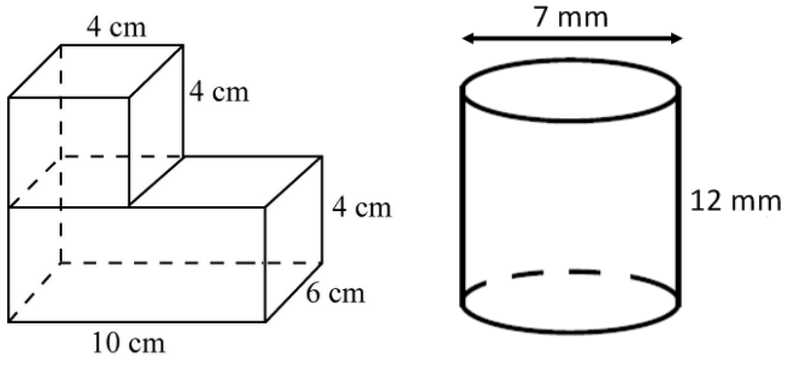
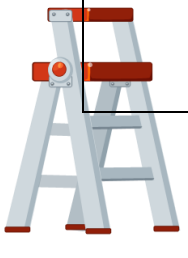
What size is it?

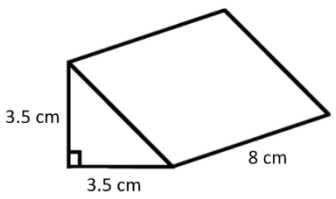
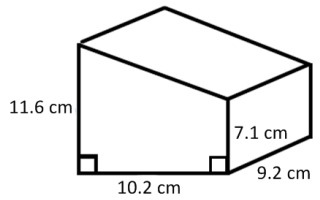
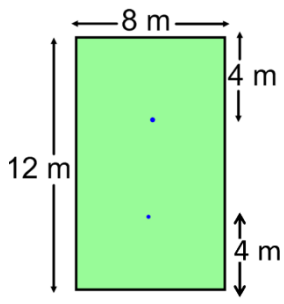
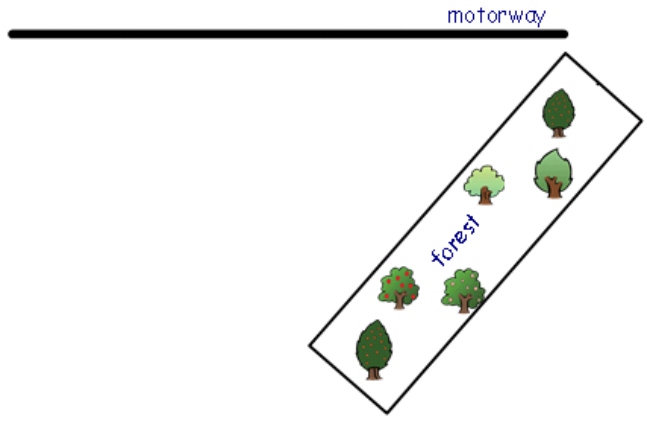
Percentage	I can …	Prove it!
84%	**H12.2 I can use the cosine rule to find missing sides and angles in any triangle**	Find the missing lengths marked x, give your answer to 1dp: 1).  2). 
82%	**H12.1 I can use the sine rule to find missing sides and angles in any triangle**	Find all the missing sides in the diagrams below, leaving your answer to 1dp. 1).  2). 
80%	**H12.3 I can find the area of a triangle using the formula Area = 1/2 ab sin C**	Find the area of each of these triangles, leaving your answer to an appropriate degree of accuracy. 1).  2). 
74%	**H10.1 I can calculate upper and lower bounds**	In the diagram below, the angles have been given correct to the nearest degree. Find the maximum possible size of angle a.
72%	**H11.1 I can use scale factor to find missing lengths, areas and volumes.**	The volumes of two mathematically similar Garden Gnomes are 125 cm^3 and 64 cm^3. a) Find the ratio of their heights. b) Find the ratio of their surface areas.  c)If the smaller Gnome's beard is 2cm long, how long is the larger Gnome's beard?

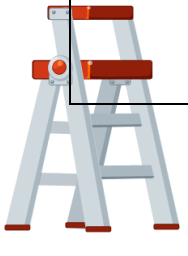


Percentage	I can …	Prove it!
70%	**C11.2 I can prove pairs of triangles are congruent using SSS, ASA, AAS and RHS**	Given that AB is parallel to ED and that AC = CE, prove that triangles ABC and CDE are congruent. 
68%	**C10.4 I can calculate surface area of pyramids, spheres and cones**	Find the surface area of the shapes below: 
64%	**C10.3 I can calculate volume of pyramids, spheres and cones**	Find the volume of each of the shapes below:  Find the height of a pyramid with volume 30m³ and base area 10m².
54%	**C10.2 I can calculate surface area of 3D prism**	Find the surface area of each of the solids below: 

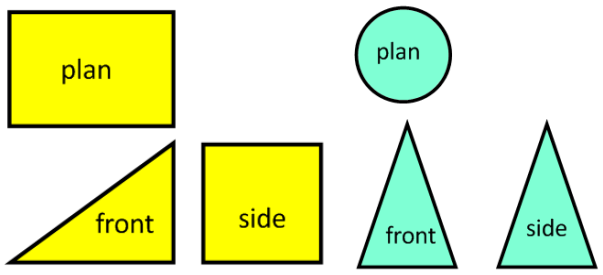
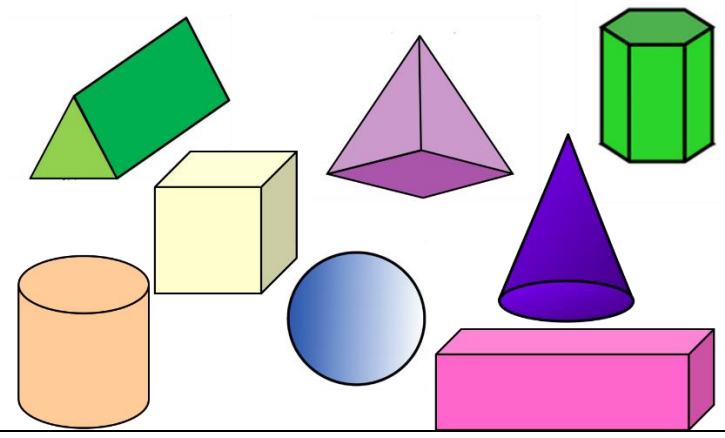


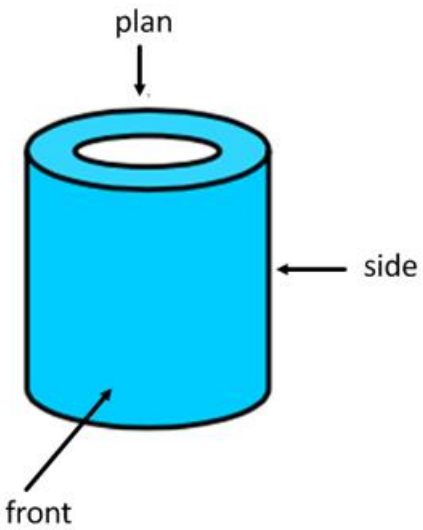
What size is it?

Percentage	I can …	Prove it!
52%	**C10.1 I can calculate volume of 3D prisms**	Find the volume of the prisms below, give your answer correct to 1 decimal place:  
48%	**C10.5 I can convert between area and volume units**	Fill in the gaps below: 1 m^3 = _____ cm^3 1 cm = _____ mm 1 cm^3 = _____ mm^3 30 000 cm^3 = _____ m^3 150 000 mm^2 = _____ cm^2 35 000 000 mm^2 = _____ m^2 In your book write a summary of how you convert between mm/cm/m, $mm^2/cm^2/m^2$ and $mm^3/cm^3/m^3$
44%	**C11.1 I can identify the loci of points and use these to solve real-world problems**	Cristian uses sprinklers to water his garden. Each sprinkler waters the grass within a radius of 3 metres. Make a scale drawing of Cristian's garden using a scale of 1m: 1cm and identify the areas of the lawn that will be watered by the sprinklers.  Brian lives 1 km from the motorway and 2 km from the edge of the forest. Find the position of Brian's house. Using the scale 1cm : 1km 



What size is it?

Percentage	I can …	Prove it!
36%	**C9.2 I can construct and interpret plans and elevations of 3D solids**	Name the 3D shapes from the plans and elevations shown below:  Draw the side elevation, plan and for elevation for a square based pyramid.
32%	**C9.1 I can recognise the vocabulary associated with 3D solids**	a) Name the 3D solids below. b) List the amount of faces, vertices and edges they have. 



Key Words:

Face

Vertex

Edge

Prism

Volume

Surface Area

Congruence

Upper Bound

Lower Bound

Accuracy

Loci

Sine Rule

Cosine Rule