Topic Test 1 (20 minutes)
Volume - Foundation

1 Which of the following is **no**t a measure of volume?
Circle your answer.

[1 mark]
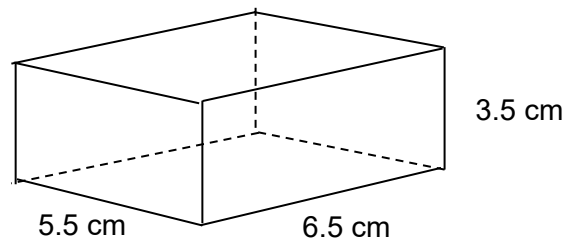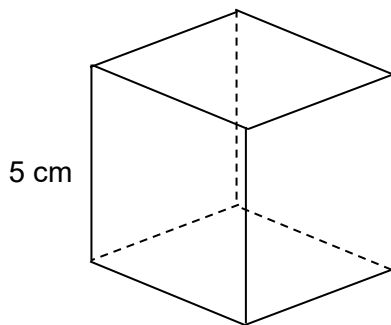
litre   cubic centimetre   metre   mm^3

2 Here are a cube and a cuboid.

5 cm

3.5 cm

5.5 cm   6.5 cm

Which has the greater volume?
You **must** show your working.

[3 marks]

Answer _____

3   A cylinder has a radius of 4 cm and a height of 6 cm

Work out the volume.
Give your answer in terms of π

[2 marks]
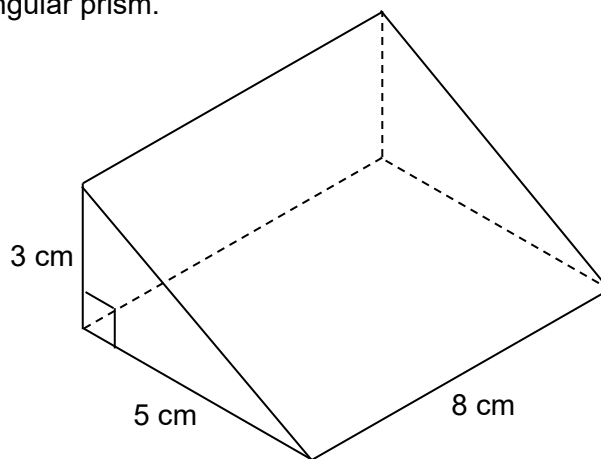
Answer _____ cm³

4   Here is a triangular prism.

3 cm

5 cm

8 cm

Work out the volume.

[3 marks]

Answer _____ cm³

5   These two cuboids are similar in shape.

3.6 cm

8 cm

1.2 cm   2 cm
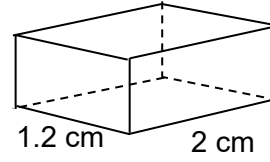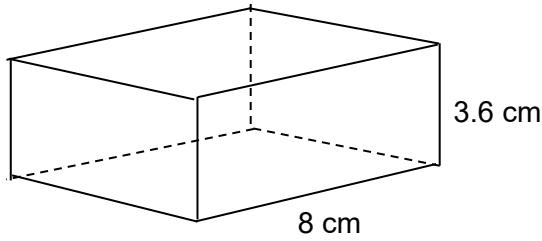
5 (a)   How many small cuboids will fill the large cuboid?

[2 marks]

Answer _____

5 (b)   Which information, given on the diagrams, is **not** necessary to answer part (a).
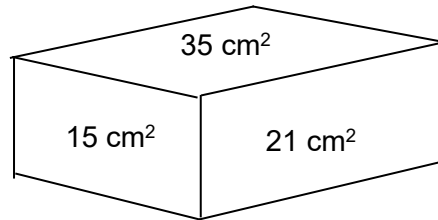Give a reason to support your answer,

[2 mark]

6 Here is a cuboid.
The **areas** of the top and two sides are shown.
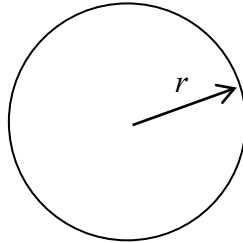

Work out the volume of the cuboid.

[3 marks]

Answer _____ cm^3

7   Here is a sphere.

$$\text{Volume} = \frac{4}{3}\pi r^3$$

The volume of the sphere is 36π cm^3

Work out the value of r.

[2 marks]

Answer _____