



FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 2

Volume

Materials

- You **cannot** use a calculator for **questions** with this symbol.



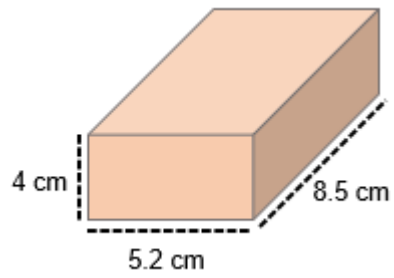
Instructions

- Answer **all** questions.
- Answer questions on separate paper.

Information and Advice

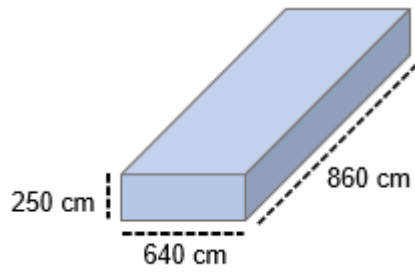
- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

Q1 Give the volume of this cuboid, in mm^3 .



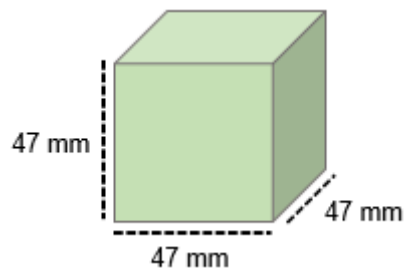
[3 marks]

Q2 Give the volume of this cuboid, in m^3 .



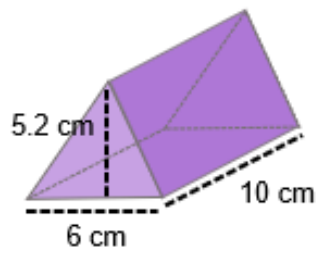
[3 marks]

Q3 Give the volume of this cube, in cm^3 .



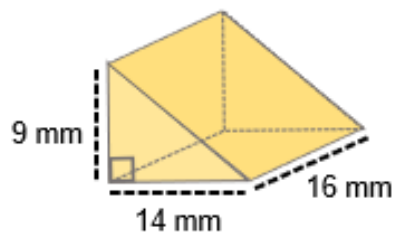
[3 marks]

Q4 Give the volume of this prism, in cm^3 .



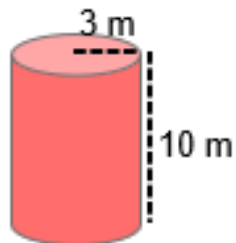
[3 marks]

Q5 Give the volume of this prism, in mm^3 .



[3 marks]

Q6 Give the volume of this prism, in m^3 . Assume $\pi = 3.14$.



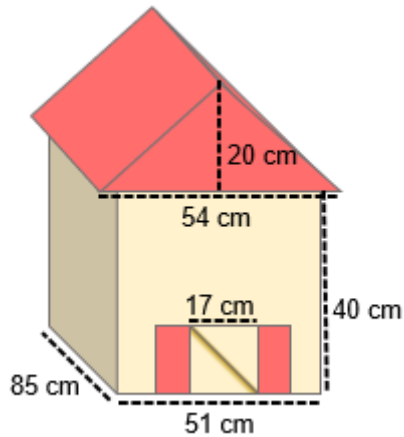
[3 marks]

Q7

A child's plastic dollhouse comprises of:

- A base, of dimensions 40 cm × 51 cm × 85 cm
- A roof, of height 20 cm, width 54 cm and length 85 cm
- A hole, representing a doorway, of height and length 17 cm, and width 85 cm.

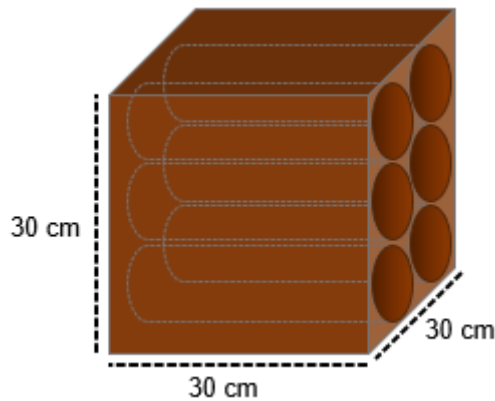
Find the volume of plastic used to make the dollhouse. Assume the entire dollhouse is **not** hollow, other than the doorway hole.



[4 marks]

Q8

A wine bottle holder has holes for 6 separate bottles, of diameter 8 cm each. The rest of the holder is made of wood. Find the volume of wood used. Assume $\pi = 3.14$.



[4 marks]