



FUNCTIONAL SKILLS MATHEMATICS

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

Level 1

Using Length, Area and Volume in Calculations

Materials

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



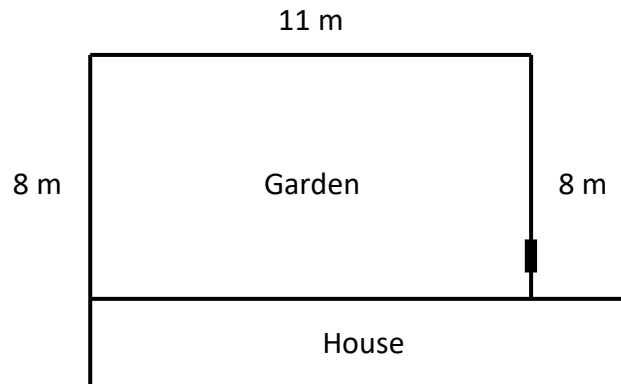
Instructions

- 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** Adam is putting fencing up around three sides of his garden. A sketch of his garden is shown below. The gate to the garden is 0.8 m wide and doesn't need fencing.



Calculate the length of fencing Adam needs.

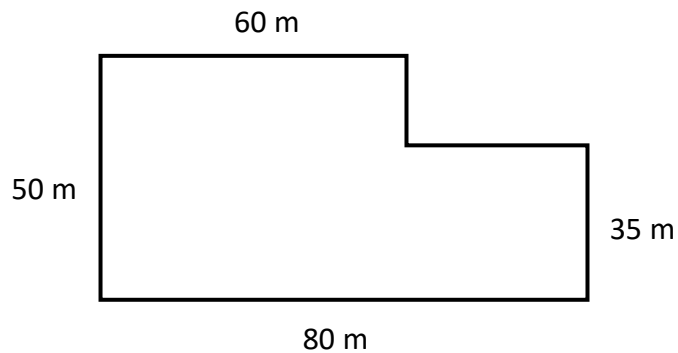
[2 marks]

- Q2** Peter is fitting a kitchen floor. The kitchen floor is 3 m long and 2.5 m wide. The kitchen tiles he will use are 0.5 m long and 0.5 m wide.

How many tiles will Peter need to buy?

[2 marks]

- Q3** Jon is a gardener. He is cutting the grass of the field seen in the diagram below.



He can cut 50 m^2 of grass in 1 minute. Work out how long it would take Jon to cut the grass of this field.

[3 marks]

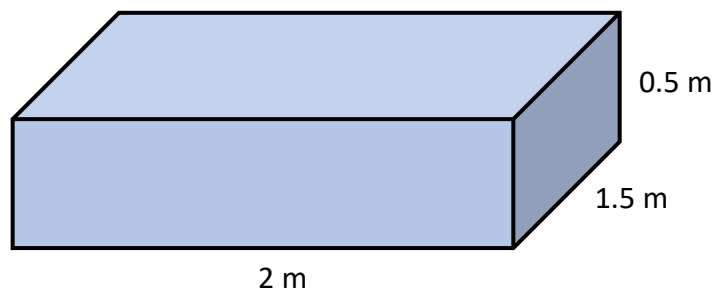
Q4 Mila wants to put lawn feed on her lawn.
Her lawn is 7.2 m long and 4.5 m wide.
Mila is going to cover her lawn with lawn feed twice.
1 kg covers 20 m² of lawn.
Lawn feed is sold in 2.5 kg boxes, costing £6.99 per box.
Calculate how much it will cost Mila to put lawn feed on her lawn.
You must show your working.

[4 marks]

Q5 Ice cube trays make ice cubes measuring 2 cm by 2 cm by 3 cm. Each ice cube tray holds 12 ice cubes.
How many ice cube trays will be needed to make ice cubes from 1500 cm³ of water?

[3 marks]

Q6 Susie is filling up a rectangular paddling pool with water. The dimensions of the paddling pool can be seen in the diagram below.



She is going to fill the paddling pool to 50% of its depth. She will do this using a hose pipe that will fill it with 0.05 m³ of water per minute.

Calculate how long it will take Susie to fill the paddling pool with water using this hose pipe.

[4 marks]