

Topic Test 1 (20 minutes)

Measures - Higher

1 Convert 2 m^2 into cm^2

Circle your answer.

[1 mark]

20 cm^2

200 cm^2

2000 cm^2

20 000 cm^2

2 1 inch = 2.54 cm

Convert 127 cm^2 into square inches.

[2 marks]

Answer _____

3 Adam's weight to the nearest kilogram is 65 kg

3 (a) What is the greatest possible value of his weight?

[1 mark]

Answer _____ kg

3 (a) What is the least possible value of his weight?

[1 mark]

Answer _____ kg

4 Convert 24 000 cm³ into m³

[1 marks]

Answer _____ m²

5 Tom's car travels 40 miles per gallon.

One litre of petrol costs £1.19

1 gallon = 4.5 litres

Work out the cost of petrol when Tom drives 200 miles.

[4 marks]

Answer £ _____

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- 6** In a race, Alex runs at an average speed of 10 kilometres per hour.
Lucy runs at an average speed of 3 metres per second.

Who runs faster?
You **must** show your working.

[3 marks]

Answer _____

- 7** The mass of a block of wood is 750 grams.
The mass is given to 2 significant figures.

The volume of the block is 1500 cm³.
The volume is given to the nearest 10.

Given that $\text{density} = \frac{\text{mass}}{\text{volume}}$

Work out the smallest possible value of the block's density.

[4 marks]

Answer _____ g/cm³