## Topic Test 1 (20 minutes)

## Measures - Higher

1 Convert $2 \mathrm{~m}^{2}$ into $\mathrm{cm}^{2}$
Circle your answer.
$2 \quad 1$ inch $=2.54 \mathrm{~cm}$
Convert $127 \mathrm{~cm}^{2}$ into square inches.

Answer

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

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

Answer
kg

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

Answer
kg

Convert $24000 \mathrm{~cm}^{3}$ into $\mathrm{m}^{3}$
[1 marks]

## Answer

 $m^{2}$6 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]
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer £

7 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.
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer

8 The mass of a block of wood is 750 grams.
The mass is given to 2 significant figures.
The volume of the block is $1500 \mathrm{~cm}^{3}$.
The volume is given to the nearest 10 .
Given that $\quad$ density $=\frac{\text { mass }}{\text { volume }}$
Work out the smallest possible value of the block's density.
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$
$\qquad$

Answer
$\mathrm{g} / \mathrm{cm}^{3}$

