

Converting Areas
Videos 350 on www.corbettmaths.com

Examples

Workout



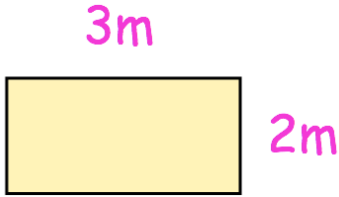
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Question 1: Shown is a rectangle with length 3m and width 2m

- (a) Find the area of the rectangle in m^2
- (b) What is the length of the rectangle in cm?
- (c) What is the width of the rectangle in cm?
- (d) Find the area of the rectangle in cm^2
- (e) Fill in the missing number using your answers to (a) and (d)



$1m^2 =$ cm^2

Question 2: Convert the following areas into cm^2

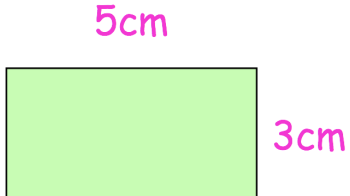
- | | | | |
|--------------|--------------|---------------|---------------|
| (a) $5m^2$ | (b) $9m^2$ | (c) $25m^2$ | (d) $104m^2$ |
| (e) $0.7m^2$ | (f) $4.3m^2$ | (g) $0.09m^2$ | (h) $60.2m^2$ |

Question 3: Convert the following areas into m^2

- | | | |
|-------------------|---------------------|-------------------|
| (a) $40,000cm^2$ | (b) $70,000cm^2$ | (c) $180,000cm^2$ |
| (d) $600,000cm^2$ | (e) $3,830,000cm^2$ | (f) $2,500cm^2$ |
| (g) $900cm^2$ | (h) $4,421cm^2$ | (i) $12cm^2$ |

Question 4: Shown is a rectangle with length 5cm and width 3cm

- (a) Find the area of the rectangle in cm^2
- (b) What is the length of the rectangle in mm?
- (c) What is the width of the rectangle in mm?
- (d) Find the area of the rectangle in mm^2
- (e) Fill in the missing number using your answers to (a) and (d)



$1cm^2 =$ mm^2

Question 5: Convert the following areas into mm^2

- | | | | |
|----------------------|----------------------|-----------------------|------------------------|
| (a) 2cm^2 | (b) 8cm^2 | (c) 35cm^2 | (d) 730cm^2 |
| (e) 0.6cm^2 | (f) 1.4cm^2 | (g) 0.03cm^2 | (h) 0.057cm^2 |

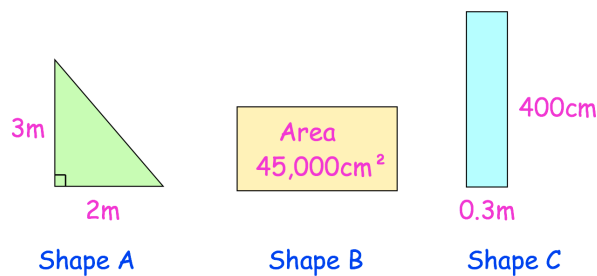
Question 6: Convert the following areas into cm^2

- | | | |
|------------------------|-------------------------|------------------------|
| (a) 500mm^2 | (b) 400mm^2 | (c) $2,200\text{mm}^2$ |
| (d) $8,000\text{mm}^2$ | (e) $91,000\text{mm}^2$ | (f) 20mm^2 |
| (g) 17mm^2 | (h) 5mm^2 | (i) 0.3mm^2 |

Question 7: Convert 6m^2 to mm^2

Apply

Question 1: Shown below are three shapes (not drawn accurately).



List the shapes in order of area, from smallest to greatest.

Question 2: Tommy has been asked to change 800cm^2 into m^2
He says:

“since there are 100 centimetres in 1 metres, the answer is 8m^2 ”

Explain why Tommy is incorrect.

Question 3: Rebecca is tiling her kitchen floor.
The floor is a rectangle, measuring 8m by 6m.
Each tile is a square measuring 20cm by 20cm.
The tiles are sold in boxes of 10 and each box costs £8.50

Work out the total cost of the tiles needed for the kitchen floor.

Answers



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