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

(a) Find the area of the rectangle in m²
(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 cm²
(e) Fill in the missing number using your answers to (a) and (d)

Example:

\[ 1 \text{m}^2 = \boxed{} \text{cm}^2 \]

Question 2: Convert the following areas into cm²

(a) 5m²  
(b) 9m²  
(c) 25m²  
(d) 104m²  
(e) 0.7m²  
(f) 4.3m²  
(g) 0.09m²  
(h) 60.2m²

Question 3: Convert the following areas into m²

(a) 40,000cm²  
(b) 70,000cm²  
(c) 180,000cm²  
(d) 600,000cm²  
(e) 3,830,000cm²  
(f) 2,500cm²  
(g) 900cm²  
(h) 4,421cm²  
(i) 12cm²

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

(a) Find the area of the rectangle in cm²
(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 mm²
(e) Fill in the missing number using your answers to (a) and (d)

Example:

\[ 1 \text{cm}^2 = \boxed{} \text{mm}^2 \]

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Question 5: Convert the following areas into mm²
(a) 2cm²  (b) 8cm²  (c) 35cm²  (d) 730cm²
(e) 0.6cm²  (f) 1.4cm²  (g) 0.03cm²  (h) 0.057cm²

Question 6: Convert the following areas into cm²
(a) 500mm²  (b) 400mm²  (c) 2,200mm²
(d) 8,000mm²  (e) 91,000mm²  (f) 20mm²
(g) 17mm²  (h) 5mm²  (i) 0.3mm²

Question 7: Convert 6m² to mm²

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 changed 800cm² into m²
He says:
“since there are 100 centimetres in 1 metres, the answer is 8m²”
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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