

CONVERT 3 m^2 TO cm^2

- 1 Draw a square 1 m on each side.
- 2 Along one edge write $1 \text{ m} = 100 \text{ cm}$.
- 3 The square is filled with rows of 1 cm squares.
- 4 One row holds 100 little squares.
- 5 There are 100 such rows, so total $100 \times 100 = 10\,000 \text{ cm}^2$.
- 6 Therefore $3 \text{ m}^2 = 3 \times 10\,000 = 30\,000 \text{ cm}^2$.

WARM-UP

Draw a 1 m square grid on the page and mark the conversions.

	$\times 20$	$\times 3$
10	200	30
7	140	21

Total: $200 + 30 + 140 + 21 = 391$

1. Shade a 4 m^2 rectangle and label it $40\,000 \text{ cm}^2$
2. Shade a 2 m^2 rectangle and label it $20\,000 \text{ cm}^2$
3. Shade a 1 m^2 square and label it $10\,000 \text{ cm}^2$

PRACTICE

- 1 A builder marks a 3 m^2 patch of floor with chalk.
| $3 \text{ m}^2 = ? \text{ cm}^2$
- 2 A carpenter needs 2 m^2 of plywood for a shelf.
| $2 \text{ m}^2 = ? \text{ cm}^2$
- 3 A tile layer covers 1 m^2 of wall with small tiles.
| $1 \text{ m}^2 = ? \text{ cm}^2$
- 4 A painter covers $45\,000 \text{ cm}^2$ of a yard wall.
| $45\,000 \text{ cm}^2 = ? \text{ m}^2$
- 5 A gardener lays turf over $70\,000 \text{ cm}^2$ of lawn.
| $70\,000 \text{ cm}^2 = ? \text{ m}^2$

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. 1 m^2 is exactly $10\,000 \text{ cm}^2$. ☐
- b. A floor of 5 m^2 measures 500 cm^2 . ☐
- c. Converting m^2 to cm^2 means multiply by 10 000. ☐
- d. An area of $25\,000 \text{ cm}^2$ equals 25 m^2 . ☐