

Relationship between area units (cm² to m²)

MODULE 5 · MEASURES — LENGTH, AREA, VOLUME, MASS AND CAPACITY MEASURES

HOW TO ANSWER TODAY

- **Convert units.** To a SMALLER unit → multiply. To a BIGGER unit → divide. Common factors:
cm ↔ mm × 10, m ↔ cm × 100, km ↔ m × 1,000, kg ↔ g × 1,000, l ↔ ml × 1,000.

$$250 \text{ cm} \rightarrow \text{m}: \div 100 = 2.5 \text{ m} \cdot 3.5 \text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500 \text{ g}$$

★ STRETCH PROBLEMS

- 1 Cian is helping his teacher mark out a sprint lane on the school yard for the Cumann na mBunscol athletics day. The lane covers an area of **120000** cm². What is this area in m²? (Remember, **1** m² = **10 000** cm².)
Convert 120000 cm² to m². (1 m² = 10 000 cm²)
- 2 The art teacher mixes **892 ml** of green paint to use for the new class crest going on the 5th class Gaelic football jersey. She wants to record the amount in litres on her supplies list. How many litres of paint has she mixed?
- 3 For STEM week, Oisín weighs the lollipop sticks and glue he is using to build a model bridge. The materials come to **981 g** on the kitchen scales. What is this mass in kilograms?
- 4 At the school summer fair, 5th class build a fairground-style spin-the-wheel out of card. The painted face of the wheel measures **30000** cm². Convert this area to m². (**1** m² = **10 000** cm²)
- 5 Saoirse maps out a small rectangular planting bed in the school orchard where a new apple tree will go. She measures its area as **30000** cm². Convert this area into m². (**1** m² = **10 000** cm²)