Relationship between area units (cm^2 to m^2)

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 cm → m: ÷ 100 = 2.5 m 3.5 kg → g: × 1,000 = 3,500 g

STRETCH PROBLEMS

1. Aoife is marking out a homemade Snakes and Ladders board on the classroom floor for wet-day break. One side of the board measures **215 cm**. How many metres is that?

2. Aoife measures the long-jump sandpit on athletics sports day and finds it covers **250000** cm^2. How many m^2 is the sandpit, if **1** m^2 = **10,000** cm^2?
   > Convert 250000 cm^2 to m^2. (1 m^2 = 10,000 cm^2)

3. Fionn measures a new fence post on granny's farm. It is **1391 mm** long. How many metres is that?

4. Saoirse's 6th class used autumn leaves to make a mural for the school corridor. The finished mural covered an area of **120000** cm^2. Convert **120000** cm^2 to m^2, given that **1** m^2 = **10,000** cm^2.

5. Aoife's 6th class are getting the stage in the school hall ready for the school play. The stage floor covers **400000** cm^2. How many square metres is that, if **1** m^2 = **10,000** cm^2?
   > Convert 400000 cm^2 to m^2. (1 m^2 = 10,000 cm^2)