

End-of-year review – number, measures and shape

MODULE 10 · ALGEBRA — PATTERNS, RULES AND NUMBER SENTENCES

ALGEBRA

HOW TO ANSWER TODAY

- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).
 $5 \text{ m} \times 3 \text{ m} \rightarrow 15 \text{ m}^2$
- **Convert units.** To a SMALLER unit $\rightarrow$ multiply. To a BIGGER unit $\rightarrow$ divide. Common factors:
 $\text{cm} \leftrightarrow \text{mm} \times 10$, $\text{m} \leftrightarrow \text{cm} \times 100$, $\text{km} \leftrightarrow \text{m} \times 1,000$, $\text{kg} \leftrightarrow \text{g} \times 1,000$, $\text{l} \leftrightarrow \text{ml} \times 1,000$.
 $250 \text{ cm} \rightarrow \text{m}: \div 100 = 2.5 \text{ m}$ · $3.5 \text{ kg} \rightarrow \text{g}: \times 1,000 = 3,500 \text{ g}$
- **Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).
 $3/5$ of 20 $\rightarrow 20 \div 5 = 4$, $\times 3 = 12$

TRY IT ON THE LINE

Set out each number from today's lesson in the place-value columns, then read it aloud.

Th	H	T	U

1. Write each number into the columns, one under the other.
2. Say the value of each digit (e.g. the 4 in 0 0 4 0 is four tens).
3. Make the largest and the smallest number you can from the same digits.

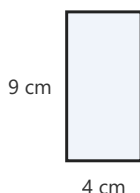
PRACTICE

- 1 On sports day, 4th class are marking out the lanes for a **45 m** sprint on the school pitch. The teacher asks them to write the distance in centimetres for the noticeboard chart. How many centimetres is **45 m**?
 Convert 45 m to cm.
- 2 Aoife has a packet of **80** biscuits to share at her sleepover. She gives **1/10** of the biscuits to her little brother before her friends arrive. How many biscuits does her brother get?
 What is 1/10 of 80?

CHALLENGE

- 1 The Camogie coach paces out a sprint lane under the floodlights, measuring **94 m** along the sideline. She wants to mark the lane with cones every metre and needs the length in centimetres for the training plan. How many centimetres is **94 m**?
 Convert 94 m to cm.

2



Aoife cuts out a small rectangular Irish flag to pin on the class door for Seachtain na Gaeilge. The flag measures **4 cm** by **9 cm**. What is its area?