

Area of rectangles – rows by columns links to multiplication

MODULE 5 · AREA, PERIMETER AND VOLUME MEASURES

HOW TO ANSWER TODAY

- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).

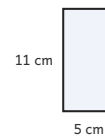
$$5 \text{ m} \times 3 \text{ m} \rightarrow 15 \text{ m}^2$$

★ STRETCH PROBLEMS

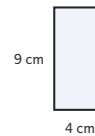
- 1 Cian cuts a rectangle of card from a cereal box for his junk-modelling project. The rectangle measures **11 cm** by **5 cm**. What is its area?



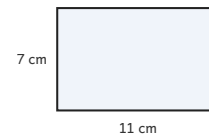
- 2 At the after-school crafts club, Oisín cuts a rectangle of coloured paper for his kite. The rectangle measures **5 cm** by **11 cm**. What is its area?



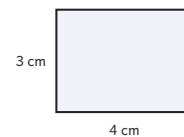
- 3 Cian paints a rectangular chess board on the school yard. It measures **4 cm** by **9 cm** on his sketch plan first. What is the area of the rectangle on his plan?



- 4 Oisín designs a rectangular class crest for the Gaelic football jersey. The crest measures **11 cm** long and **7 cm** wide. What is the area of the crest?



- 5 Fionn is drawing a plan for a new herb bed in the school polytunnel. The bed is a rectangle measuring **4 cm** by **3 cm** on his plan. What is the area of the rectangle?



● INVESTIGATE

Fence the biggest garden

You have **24 m** of fencing for a rectangular garden. Sketch at least four different rectangles that use all 24 m of fence. Find the **area** of each. Which shape gives the most growing space, and which the least? What do you notice?
