

Design our 6th Class welcome poster

MODULE 9 · MATHEMATICAL MODELING AND END-OF-YEAR REVIEW

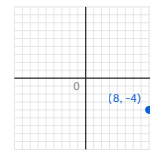
REVIEW

HOW TO ANSWER TODAY

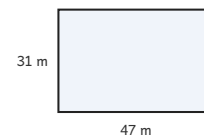
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.
 $(3, 5) \rightarrow Q1 \cdot (-2, 1) \rightarrow Q2 \cdot (0, 4) \rightarrow \text{on the y-axis}$
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: $(\text{length} + \text{width}) \times 2$.
 $12 \text{ m by } 8 \text{ m} \rightarrow (12 + 8) \times 2 = 40 \text{ m}$
- **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

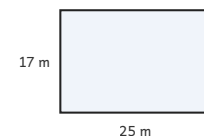
- 1 Aoife draws a coordinate grid of where each pupil sits in 5th class, with the teacher's desk at the origin. She marks her own desk at the point (8, -4). Which quadrant of the grid is Aoife's desk in?



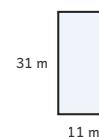
- 2 The caretaker is marking out a rectangular junior GAA pitch on the school field for 5th class training. The pitch measures 47 m along one side and 31 m along the other. What length of rope is needed to mark all the way around the perimeter?



- 3 5th class are marking out a rectangular running track on the school field for sports day. The track measures 25 m by 17 m. What is the area inside the track?



- 4 5th class are fencing off a rectangular plot in the school orchard to grow apple trees. The plot measures 11 m by 31 m. What length of fencing do they need to go all the way around it?



- 5 The caretaker is marking out a small soccer pitch on the school field for 5th class. The pitch measures 7 m by 17 m. What is the area of the pitch?

