Design our 6th Class welcome poster

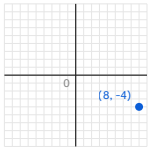
MODULE 9 · MATHEMATICAL MODELING AND END-OF-YEAR REVIEW REVIEW

HOW TO ANSWER TODAY

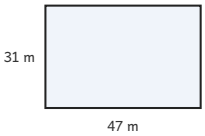
- **Quadrants.** Q1 is top-right; numbering goes ANTICLOCKWISE. A point on an axis is on the axis, not in a quadrant.
  (3, 5) → Q1 (−2, 1) → Q2 (0, 4) → on the y-axis
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: (length + width) × 2.
  12 m by 8 m → (12 + 8) × 2 = 40 m
- **Area.** Area = length × width. Write the answer in square units (cm^2, m^2).
  5 m × 3 m → 15 m^2

STRETCH PROBLEMS

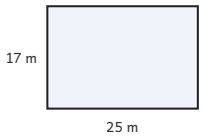
1. Aoife draws a coordinate grid of where each pupil sits in 5th class, with the teacher's desk at the origin. She marks her own desk at the point (**8** , - **4**). Which quadrant of the grid is Aoife's desk in?



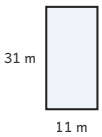
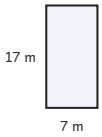
2. The caretaker is marking out a rectangular junior GAA pitch on the school field for 5th class training. The pitch measures **47 m** along one side and **31 m** along the other. What length of rope is needed to mark all the way around the perimeter?



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?