

Area, perimeter and volume review

MODULE 5 · AREA, PERIMETER AND VOLUME MEASURES

HOW TO ANSWER TODAY

- **Polygon perimeter.** Regular = all sides equal. Perimeter = number of sides $\times$ side length.
Regular pentagon, side 4 cm $\rightarrow 5 \times 4 = 20$ cm
- **Area.** Area = length $\times$ width. Write the answer in square units (cm², m²).
5 m $\times$ 3 m $\rightarrow 15$ m²
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: (length + width) $\times$ 2.
12 m by 8 m $\rightarrow (12 + 8) \times 2 = 40$ m

★ STRETCH PROBLEMS

- 1 Cara is making a square tile for the mosaic on the school library wall. Each side of the tile measures **3 cm**. What is the perimeter of the tile?



- 2 Cian builds a square base for his robot in the class robotics project. Each side of the base measures **10 cm**. What is the perimeter of the square base?



- 3 Aoife cuts a rectangular flag for the summer fair bunting. It measures **9 cm** along one side and **2 cm** along the other. What is the area of the flag?



- 4 3rd class mark out a rectangular training pitch on the GAA grounds that measures **20 m** by **8 m**. They want to run a rope all the way around the edge. How long is the rope around the whole pitch?



● INVESTIGATE

Pack the box

A gift box is a cuboid **4 cm** long, **3 cm** wide and **2 cm** high. How many 1 cm cubes fill it? Design **two different** cuboid boxes that hold the **same** number of cubes but look different. Which box would need the most wrapping paper on the outside — and how could you check?
