

Area, perimeter and volume review

MODULE 5 · AREA, PERIMETER AND VOLUME MEASURES

HOW TO ANSWER TODAY

- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: $(\text{length} + \text{width}) \times 2$.
 $12 \text{ m by } 8 \text{ m} \rightarrow (12 + 8) \times 2 = 40 \text{ m}$
- **Polygon perimeter.** Regular = all sides equal. Perimeter = number of sides $\times$ side length.
 Regular pentagon, side $4 \text{ cm} \rightarrow 5 \times 4 = 20 \text{ cm}$

STRETCH PROBLEMS

- 1 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?



- 2 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?



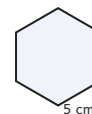
- 3 Cian builds a square base for his robot in the class robotics project. Each side of the base measures **10 cm**. What is the perimeter of the square base?



- 4 Daithí draws a square play mat on grid paper for his classroom plan. Each side of the square measures **12 cm**. What is the perimeter of the play mat on his plan?



- 5 For Seachtain na Gaeilge, Oisín makes a hexagon-shaped sign for the class door. The regular hexagon has **6** sides, each **5 cm** long. What is the perimeter of the sign?



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?
