

# Perimeter of rectangles and regular shapes

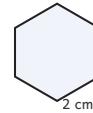
MODULE 5 · AREA, PERIMETER AND VOLUME MEASURES

## HOW TO ANSWER TODAY

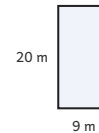
- **Polygon perimeter.** Regular = all sides equal. Perimeter = number of sides  $\times$  side length.  
Regular pentagon, side 4 cm  $\rightarrow 5 \times 4 = 20$  cm
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: (length + width)  $\times$  2.  
12 m by 8 m  $\rightarrow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

## ★ STRETCH PROBLEMS

- 1 Cian cuts a regular hexagon tile with sides of **2 cm** for the corridor tessellation display. What is the perimeter of the hexagon tile?



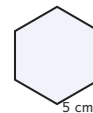

- 2 The 4th class garden plot for the school play props is a rectangle measuring **9 m** by **20 m**. Tadhg wants to put a low fence all the way around the edge. What is the perimeter of the plot?




- 3 Cian cuts a regular pentagon shape out of card for the school art display. Each of its **5** sides measures **5 cm**. What is the perimeter of the pentagon?




- 4 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?




- 5 The caretaker paints a rectangular wall-ball court on the yard measuring **2 m** by **8 m**. What is the perimeter of the court?




## ● 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?

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