

Perimeter of regular and irregular shapes

MODULE 5 · MEASURES — LENGTH, AREA, VOLUME, MASS AND CAPACITY

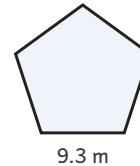
MEASURES

HOW TO ANSWER TODAY

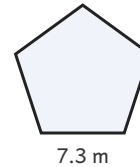
- **Polygon perimeter.** Regular = all sides equal. Perimeter = number of sides $\times$ side length.
Regular pentagon, side 4 cm $\rightarrow 5 \times 4 = 20$ cm
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: (length + width) $\times$ 2.
12 m by 8 m $\rightarrow (12 + 8) \times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

★ STRETCH PROBLEMS

- 1 The local GAA club paints a regular pentagon onto the pitch to mark the centre of a community sports day display. Each of the 5 equal sides of the pentagon measures 9.3 m. What is the perimeter of the pentagon?



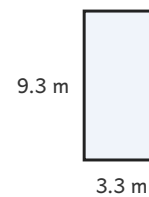
- 2 5th class are marking out a pentagon-shaped running zone in the school yard for sports day. The zone has 5 equal sides and each side measures 7.3 m. What is the perimeter of the running zone?



- 3 Mr Byrne is marking out a small soccer pitch on the school field for 5th class training. The pitch measures 8.9 m long and 3.9 m wide. What length of line does he need to mark around the whole perimeter?



- 4 5th class are planning a new rectangular flowerbed in the school garden. The flowerbed will measure 3.3 m by 9.3 m. What length of timber edging do they need to go all the way around it?



- 5 5th class are marking out a regular decagon on the school yard for a PE game. Each of the 10 sides measures 3.9 m. What is the perimeter of the decagon?

