

Regular and irregular polygons – pentagon, hexagon and octagon

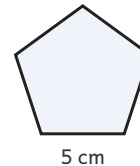
MODULE 7 · 2D AND 3D SHAPES AND ANGLES SHAPE & SPACE

HOW TO ANSWER TODAY

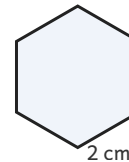
- **Polygon perimeter.** Regular = all sides equal. Perimeter = number of sides $\times$ side length.
Regular pentagon, side 4 cm $\rightarrow 5 \times 4 = 20$ cm
- **Name a 2D shape.** Count sides, check which are equal, count right angles, check parallel pairs. Then name it.

★ STRETCH PROBLEMS

- 1 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?



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



- 3 Cian is building a den in the school orchard and pegs out a flat panel with 4 sides. It has 2 pairs of parallel sides, 0 right angles, and no two equal sides next to each other. Which 2D shape is his panel?

- 4 Cian is painting a shape on the banner for GAA finals day. His shape has 6 equal sides and 6 equal angles. Which 2D shape is Cian painting?

- 5 Cian spots a shape painted on the yard beside the hopscotch. It has 4 equal sides but 0 right angles. Which 2D shape is it?

