

Regular and irregular polygons: pentagon, hexagon and octagon

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

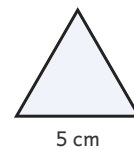
HOW TO ANSWER TODAY

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

★ STRETCH PROBLEMS

- 1 Cian is drawing paving tiles for the path in the new school polytunnel. He wants a tile with 6 equal sides and 6 equal angles. Which 2D shape should he draw?

- 2 Cian is building a triangle-shaped raised bed for herbs in the school garden. Each of the 3 sides measures 5 cm on his plan. What is the perimeter of the raised bed on the plan?



- 3 Aoife is designing a class crest for the Gaelic football jersey. She wants a shape with 4 equal sides and 0 right angles. Which 2D shape should she use?

- 4 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?

- 5 During STEM week, Oisín builds a square base for his model bridge using card. Each side of the square measures 11 cm. What is the perimeter of the base?



