Lesson 73

Naming and sorting 2D and 3D shapes

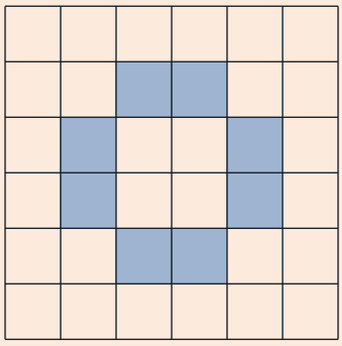
MODULE 6 · 2D AND 3D SHAPE, ANGLES, SYMMETRY · SHAPE & SPACE

HOW TO ANSWER TODAY

- **Name a 2D shape.** Count sides, check which are equal, count right angles, check parallel pairs. Then name it.
  4 equal sides, 0 right angles → rhombus · 4 sides, 1 pair parallel → trapezium
- **Name a 3D shape.** Count faces (flat surfaces), edges (where two faces meet), vertices (corners). Match to the shape.
  5 faces, 9 edges, 6 vertices → triangular prism

TRY IT ON THE LINE

Look at the shaded shape on the grid. Count its sides; count any equal sides; then name the shape.



1. How many sides does the shaded shape above have? _____
   Name: _____
2. How many sides does a **triangle** have? _____
3. How many sides does a **pentagon** have? _____
4. How many sides does a **hexagon** have? _____

PRACTICE

1. Cian is helping the caretaker stack PE equipment into the storeroom in St Brigid's NS. He picks up a sturdy box that has 6 faces, 12 edges and 8 vertices, and he notices that every face is a rectangle but not all of them are squares. What 3D shape is the box?

   > A 3D shape has these properties: 6 faces, 12 edges, 8 vertices; all faces are rectangles, not all squares. What shape is it?

2. Eoin is sketching a flowerbed for the 5th class school garden. He wants the flowerbed to have 4 sides with exactly 1 pair of parallel sides. Which 2D shape should he draw?

   > Which 2D shape has these properties: 4 sides with exactly 1 pair of parallel sides?

CHALLENGE

1. Cian and his friends are building a den in the school orchard. They prop four triangular branches against a square wooden pallet so the tips meet at a single point above. The finished frame has 5 faces, 8 edges and 5 vertices, with 1 square base and 4 triangular faces meeting at one apex. What 3D shape have they made?

   > A 3D shape has these properties: 5 faces, 8 edges, 5 vertices; 1 square base and 4 triangular faces meeting at one apex. What shape is it?

2. Cian is painting shapes onto a banner for the GAA county finals day. His teacher asks him to add a shape with 6 equal sides and 6 equal angles in the centre. Which 2D shape should Cian paint?

   > Which 2D shape has these properties: 6 equal sides and 6 equal angles?