

Isometric drawing – drawing a cuboid on dot paper

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

HOW TO ANSWER TODAY

- **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
- **Read a protractor.** Protractors have two scales. Pick the one that reads 0° on the side the angle's first arm sits on.
First arm on outer 0° → use the outer scale to read the second arm

WARM-UP

- Cian is helping plan a new raised planter for the school garden. He sketches a shape with 6 faces, 12 edges and 8 vertices, where every face is a square. What 3D shape is the planter?
A 3D shape has these properties: 6 faces, 12 edges, 8 vertices; all faces are squares. What shape is it?
- Mr Ó Briain shows 5th class a wooden block from the maths cupboard for the corridor shape display. The block has 6 faces, 12 edges and 8 vertices, and every face is a rectangle but not all of them are squares. What 3D shape is the block?
A 3D shape has these properties: 6 faces, 12 edges, 8 vertices; all faces are rectangles, not all squares. What shape is it?

PRACTICE

- Cian is building a model for the 5th class robotics project. One of the parts has 5 faces, 8 edges and 5 vertices, with 1 square base and 4 triangular faces meeting at one apex. What 3D shape is this part?
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?
- Saoirse is building a kite in the after-school crafts club and measures one of its corner angles with a protractor. The angle looks obtuse, and the protractor shows 136° on one scale and 44° on the other scale. Which reading is the correct one for her kite's corner?
On a protractor, one scale reads 136° and the other scale reads 44° . Which reading is correct if the angle looks obtuse?

CHALLENGE

- Oisín is sorting parts for the 5th class robotics build. He picks up a plastic piece with 2 faces, 1 edge and 1 vertex, with 1 circular base and 1 apex. What 3D shape is the piece?
A 3D shape has these properties: 2 faces, 1 edge, 1 vertex; 1 circular base and 1 apex. What shape is it?
- Méabh is making a 3D shapes corridor display for 5th class. One of her models has 5 faces, 8 edges and 5 vertices, with 1 square base and 4 triangular faces meeting at one apex. What shape is the model?
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?