

Triangles and quadrilaterals

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.
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

WARM-UP

- Aoife is cutting out a paper banner shape to decorate the class door for Seachtain na Gaeilge. Her banner has **4** sides with exactly **1** pair of parallel sides. Which 2D shape is it?
Which 2D shape has these properties: 4 sides with exactly 1 pair of parallel sides?
- Aoife is helping the caretaker repaint a shape on the school yard beside the hopscotch grid. The shape has **4** sides with **2** pairs of equal length and **4** right angles. Which 2D shape is it?
Which 2D shape has these properties: 4 sides with 2 pairs of equal length and 4 right angles?

PRACTICE

- For an art lesson, Aoife is making a scale drawing of the school yard. She sketches a flower bed that has **4** sides with **2** pairs of equal length and **4** right angles. Which 2D shape is the flower bed?
Which 2D shape has these properties: 4 sides with 2 pairs of equal length and 4 right angles?
- Tadhg helps build a wooden name-sign for the school garden raised beds. The sign has **3** sides with exactly **2** equal sides. Which 2D shape is the sign?
Which 2D shape has these properties: 3 sides with exactly 2 equal sides?

CHALLENGE

- Aoife is cutting a shape for the front of her papier-mâché mask for the school play. Her shape has **6** equal sides and **6** equal angles. What 2D shape is she cutting?
Which 2D shape has these properties: 6 equal sides and 6 equal angles?
- In art class, Oisín is making a model of a tent for his scale drawing of the school yard. The tent has **5** faces, **8** edges and **5** vertices, with **1** square base and **4** triangular faces meeting at one apex. What 3D shape is the tent?
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?