

Sorting 2D shapes by their properties

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

- **Parts of a circle.** Centre = middle point. Radius = centre to edge. Diameter = edge through centre to edge. Circumference = the distance round.

Line from centre to edge → radius · All the way round → circumference

WARM-UP

- 1 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?

- 2 Aoife is decorating the classroom door for Seachtain na Gaeilge. She cuts out a shape with 4 sides that has 2 pairs of equal length and 4 right angles. Which 2D shape has she cut out?

Which 2D shape has these properties: 4 sides with 2 pairs of equal length and 4 right angles?

PRACTICE

- 1 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?

- 2 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

- 1 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?

- 2 At Camogie training under the floodlights, the coach draws a circle on the pitch for a passing drill. The circle has a diameter of 10 cm in her notebook sketch. What do we call the line from the centre to the edge, and how long is it?