

Angles inside 2D shapes

MODULE 7 · 2D AND 3D SHAPES AND ANGLES

SHAPE & SPACE

HOW TO ANSWER TODAY

- **Classify an angle.** Acute $< 90^\circ$ · right = 90° · obtuse $90^\circ - 180^\circ$ · straight = 180° · reflex $> 180^\circ$.
 $75^\circ \rightarrow$ acute · $120^\circ \rightarrow$ obtuse · $220^\circ \rightarrow$ reflex
- **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 $\rightarrow$ rhombus · 4 sides, 1 pair parallel $\rightarrow$ trapezium

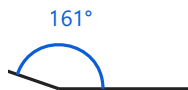
STRETCH PROBLEMS

1



Cian is building a den with branches in the school orchard. Two of the branches meet at an angle of **126°** . Is this angle acute, right, obtuse, straight or reflex?

2



Aoife is painting new hopscotch squares on the school yard. One of the chalk lines meets another at an angle of **161°** . Is this angle acute, right, obtuse, straight or reflex?

3



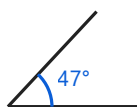
Oisín is drawing arrows on his homemade Snakes and Ladders board. One of the arrows turns through an angle of **158°** . Is this angle acute, right, obtuse, straight or reflex?

4

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?

5



Cian is helping mark out a triangular flowerbed in the school garden. One corner of the bed measures **47°** . Is this angle acute, right, obtuse, straight or reflex?