

Angles on a line, at a point and vertically opposite

MODULE 7 · 2D SHAPE, 3D SHAPE AND ANGLES SHAPE & SPACE

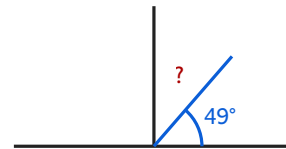
HOW TO ANSWER TODAY

- **Pairs of angles.** Complementary → add to 90° . Supplementary → add to 180° . Around a point → add to 360° .

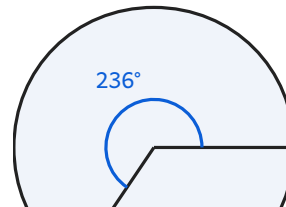
Supplementary, one is $55^\circ \rightarrow$ other is $180^\circ - 55^\circ = 125^\circ$

★ STRETCH PROBLEMS

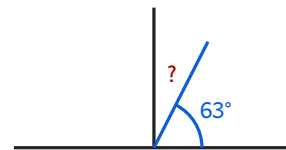
- 1 Saoirse is folding a paper corner for the Seachtain na Gaeilge door display, making two angles that fit together to form a right angle of 90° . One of the angles measures 49° . What does the other angle measure?



- 2 Cian is marking out a circular flower bed in the school garden. He splits the full turn of 360° around the centre into two wedge-shaped sections for different vegetables. One section measures 236° . How many degrees does the other section measure?



- 3 Cara is making a papier-mâché mask for the 5th class play and cuts two card pieces that meet at a right angle along the cheek. The first piece has a corner of 63° . What angle must the second piece have so the two corners add to 90° ?



- 4 For Engineers Week, Tadhg's 5th class are making wooden picture frames. Where two pieces of timber meet along a straight edge, the two angles must add up to 180° . One of Tadhg's angles measures 153° . What does the other angle need to measure?



- 5 Aoife is sewing triangular bunting flags for the school summer fair. Along the top edge of each flag, two angles sit side by side on a straight line and must add to 180° . If one angle measures 132° , what does the other angle measure?



SHAPE & SPACE