

Angles on a line, at a point and vertically opposite

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

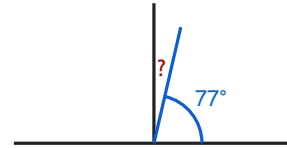
HOW TO ANSWER TODAY

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

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

★ STRETCH PROBLEMS

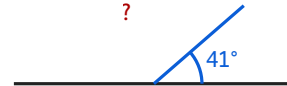
- 1 6th class are making papier-mâché masks for the school play. On Saoirse's mask pattern, two angles are complementary and add up to 90° . One angle is 77° . What is the size of the other angle?



- 2 Tadhg is building a model bridge for STEM week. One angle on a straight support beam measures 143° . The angles are supplementary and sum to 180° . What is the other angle?



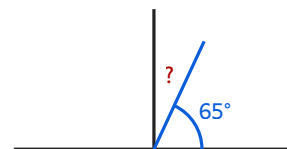
- 3 Saoirse helps decorate the classroom door for Seachtain na Gaeilge. Two of the paper strips meet along a straight edge and form supplementary angles that sum to 180° . One angle is 41° . What is the other angle?



- 4 In the class woodwork project for Engineers Week, Tadhg cuts two pieces of timber that meet in a straight line. The angles are supplementary and sum to 180° , and one is 140° . What is the other angle?



- 5 Aoife is building a den in the school orchard with her class. Two poles need to meet so their angles are complementary and sum to 90° . One angle is already 65° . What is the size of the other angle?



SHAPE & SPACE