

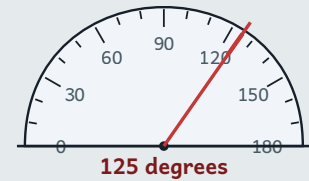
Angles on a line, at a point and vertically opposite

MODULE 7 · 2D SHAPE, 3D SHAPE AND ANGLES REVIEW

Angles **on a straight line** add to 180° ; angles **around a point** add to 360° ; **vertically opposite** angles are equal.

→ On a line: $130^\circ + ? = 180^\circ \rightarrow 50^\circ$.

→ Around a point: angles total 360° .



ANGLES ON A STRAIGHT LINE ARE 125° AND x . FIND x .

① Angles on a line add to 180° .

② $x = 180 - 125 = 55^\circ$.

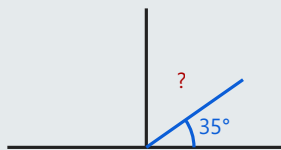
HOW TO ANSWER TODAY

- **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 $180^\circ - 55^\circ = 125^\circ$

WARM-UP

1



Saoirse is folding a square piece of card to make a beak for her papier-mâché mask in the school play. She folds the corner so one of the two angles measures 35° , and the two angles must add to 90° to make a right angle. What is the size of the other angle?

2



Cian is painting a corner triangle on the banner for the GAA finals day. Two angles meeting at the corner are complementary, so they add up to 90° . One of the angles measures 68° . What does the other angle measure?