

Lesson 75 **MIXED**

Angle sum of a triangle

WHAT THIS LESSON TEACHES

The three angles of **any triangle add to 180°**. Knowing two angles lets you find the third.

$$\rightarrow 60^\circ + 80^\circ + ? = 180^\circ \rightarrow 40^\circ.$$



MODEL THIS ON THE BOARD

TWO ANGLES OF A TRIANGLE ARE 55° AND 80°. FIND THE THIRD.

- 1 The angles add to **180°**.
- 2 $55 + 80 = 135$.
- 3 $180 - 135 = 45^\circ$.

ANSWER KEY

W1: 46°

Q2: 64°

W2: 82°

Q3: 74°

Q1: 55°

Q4: 46°

EXTENSION SHEET · STRETCH ANSWERS

S1: 57°

S3: 44°

S2: 42°