

Shape and angle construction review

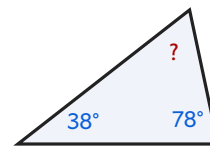
MODULE 7 · 2D SHAPE, 3D SHAPE AND ANGLES SHAPE & SPACE

HOW TO ANSWER TODAY

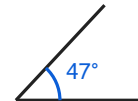
- **Triangle angles.** Triangle angles add to 180° . Add the two you know, then subtract from 180° .
 $45^\circ + 60^\circ = 105^\circ$. $180^\circ - 105^\circ = 75^\circ$
- **Classify an angle.** Acute $< 90^\circ$ · right $= 90^\circ$ · obtuse $90^\circ - 180^\circ$ · straight $= 180^\circ$ · reflex $> 180^\circ$.
 $75^\circ \rightarrow$ acute · $120^\circ \rightarrow$ obtuse · $220^\circ \rightarrow$ reflex
- **Read a protractor.** Protractors have two scales. Pick the one that reads 0° on the side the angle's first arm sits on.
 First arm on outer $0^\circ \rightarrow$ use the outer scale to read the second arm

★ STRETCH PROBLEMS

- 1 Tadhg is chalking a triangular relay zone on the school yard for sports day. He measures two of the corners as 38° and 78° . What is the size of the third corner?



- 2 For Engineers Week, Tadhg is cutting a wooden bracket for the class woodwork project. He measures one of the corners and the protractor reads 47° . Is this angle acute, right, obtuse, straight or reflex?



- 3 Cian is building a paper kite at the after-school crafts club and uses a protractor to check one of the corner angles. One scale on the protractor reads 57° and the other scale reads 123° . The angle clearly looks acute. Which reading is correct?

