Measuring angles with a protractor

MODULE 6 · 2D AND 3D SHAPE, ANGLES, SYMMETRY · SHAPE & SPACE

HOW TO ANSWER TODAY

- **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° → use the outer scale to read the second arm
- **Classify an angle.** Acute < 90° · right = 90° · obtuse 90°–180° · straight = 180° · reflex > 180°.
  75° → acute 120° → obtuse 220° → reflex

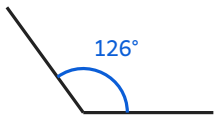
STRETCH PROBLEMS

1. Tadhg is measuring an angle on his model bridge frame for STEM week in 5th class. When he lines up his protractor, one scale reads **98°** and the other scale reads **82°**. The angle clearly looks obtuse. Which reading is the correct one?

2. Cian is making a kite at the after-school crafts club and uses a protractor to check one of the corner angles. One scale reads **84°** and the other reads **96°**, but the angle clearly looks acute. Which reading is the correct one?

3. For Engineers Week, Tadhg's 5th class are marking angles on timber pieces for a woodwork project. When Tadhg lines up his protractor on a corner, one scale reads **57°** and the other scale reads **123°**. The angle clearly looks acute. Which reading is correct?

4. Saoirse is making a scale drawing of the school yard for art class. One of the corners between the wall and the fence measures **126°** on her protractor. Is this angle acute, right, obtuse, straight or reflex?



5. Saoirse helps paint a new hopscotch design on the school yard. Two of the chalk lines meet at an angle of **158°**. Is this angle acute, right, obtuse, straight or reflex?

SHAPE & SPACE