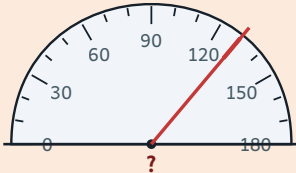


PLACE PROTRACTOR AND READ THE SCALE

- 1 Put the centre mark exactly on the vertex of the angle.
- 2 Line up the baseline with one arm so it reads zero.
- 3 Follow the correct scale ring to the second arm and read the number.

WARM-UP

Read the protractor picture.



1. Read the angle the red ray marks.
2. Is that angle acute, right or obtuse?
3. How many degrees is the angle between the red ray and the left-hand end of the baseline?

PRACTICE

- 1 Aoife puts the centre of her protractor on the corner of an open book. One cover lies along **0** on the inner scale. The other cover crosses the inner scale at **40** and the outer scale at **140**.
What size is the angle between the covers?
- 2 Two rulers meet at a join on the table. One ruler lies along **0** on the outer scale of the protractor. The other ruler crosses the outer scale at **35** and the inner scale at **145**.
What size is the angle between the two rulers?
- 3 A protractor is placed where the chair back meets the seat. The seat lies along **0** on the inner scale. The chair back crosses the inner scale at **65** and the outer scale at **115**.
What size is the angle between the chair back and the seat?
- 4 The protractor sits on the top corner of the triangle on the board. One side lies along **0** on the outer scale. The other side crosses the outer scale at **80** and the inner scale at **100**.
What size is the angle at the top of the triangle?
- 5 The protractor is placed where the open classroom door meets the frame. The frame lies along **0** on the inner scale. The door crosses the inner scale at **110** and the outer scale at **70**.
What size is the angle between the door and the frame?

? ALWAYS, SOMETIMES, NEVER

Always, sometimes or never true? Write A, S or N.

- a. The protractor centre mark sits on the vertex for an accurate reading. ☐
- b. When the arm on the baseline points to 0 on the outer scale, you read the inner scale. ☐
- c. An angle of 90 degrees is acute. ☐
- d. You check both scale rings before choosing the angle reading. ☐

