

Measuring angles accurately with a protractor

WHAT THIS LESSON TEACHES

To measure an angle accurately, place the protractor's centre mark exactly on the vertex where the two arms meet and align the baseline with one arm.

→ Place the protractor centre on the vertex of the clock hands showing 2 o'clock and read 60 degrees.

→ Align the baseline with the desk edge and read the angle to the wall at 90 degrees.

MODEL THIS ON THE BOARD

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.

ANSWER KEY

b) 75°, 85°, 95°

Q1: 45°

Q2: 30°

Q3: 60°

Q4: 75°

Q5: 85°

Q6: 95°

a) Always — This is the key rule for accurate placement.

b) Sometimes — It depends on which ring starts at zero.

c) Always — 90 degrees is a right angle, not acute.

d) Always — This prevents reading the wrong scale.

EXTENSION SHEET · STRETCH ANSWERS

S1: 84°

S2: 98°

S3: 85° is acute

S4: 84° is acute

S5: 84°