Measuring/classifying angles

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. Classify an angle of 74°. [1 mark]

$0 < 74 < 90$.

Answer: Acute.

2. Classify an angle of 180°. [1 mark]

A half-turn is 180°.

Answer: Straight.

3. Classify an angle of 302°. [1 mark]

$180 < 302 < 360$.

Answer: Reflex.

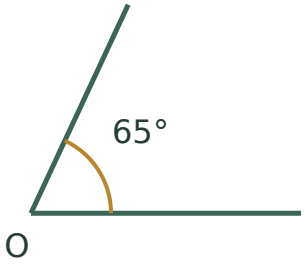
4. A protractor shows 37 and 143 at the second arm. The starting arm is on the zero of the scale that reads 37. State the angle and explain why 143 is unsuitable. [2 marks]

The correct scale starts at the zero on the starting arm.

Reading the other scale measures from the opposite baseline direction.

Answer: 37°.

5. Draw a 65° angle using a ruler and protractor. Mark its vertex. [3 marks]



Angle size is the turn between the arms.

Draw a straight baseline.

Put the protractor centre at the chosen vertex and align the correct zero.

Mark 65° and draw the second arm through the mark.

Answer: A constructed acute angle of 65°, with the vertex labelled.

6. The smaller angle between the hands of a clock at 3:00 is a quarter-turn. Give its size and name. [2 marks]

A full turn is 360°.

$360 \div 4 = 90$.

Answer: 90°, a right angle.