

Shape and angle investigation and review

WHAT THIS LESSON TEACHES

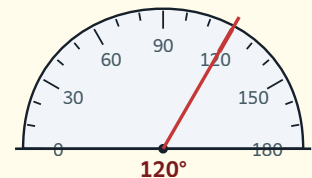
To name or sort a shape, ask one property question about it, such as 'how many sides?', 'how many faces?' or 'is this corner a right angle?'. The answer tells you which group it belongs in.

- A cube has 6 faces; a square-based pyramid has 5 faces, so 'how many faces?' tells them apart.
- A triangle has 3 sides; a square, rhombus and trapezium each have 4 sides.

MODEL THIS ON THE BOARD

SORTING ONE ANGLE: RIGHT OR NOT?

- 1 The protractor shows this corner measures exactly **120** degrees.
- 2 A right angle is exactly **90** degrees.
- 3 **120** is bigger than **90**, so this is not a right angle (it is obtuse).



DISCUSSION STARTER

REFLECT When you sorted the mixed shapes, which property question helped you most?

ANSWER KEY

Scaffold: visual check on the page

Q1: 3

Q2: 6

Q3: 5 faces, fewer

a) Always — Any closed shape with exactly 3 straight sides is a triangle.

b) Sometimes — A square has right angles but a rhombus need not, so it depends on the shape.

c) Always — Every cube has exactly 6 square faces.

d) Always — A cube has 6 faces and a pyramid has 5, so the answers always differ.

EXTENSION SHEET · STRETCH ANSWERS

S1: a square-based pyramid

S2: radius, 5 cm

S3: a regular octagon

S4: cone

S5: 10