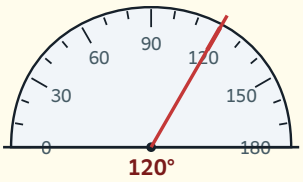
Lesson 83

Shape and angle investigation and review

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).



WARM-UP

Draw and label these shapes and corners in your squared space.

1. Draw a triangle with 3 sides and a square with 4 sides, and write the side count beside each.
2. Draw a cube marked '6 faces' and a square-based pyramid marked '5 faces'.
3. Draw 3 corner cards - acute, right and obtuse - and tick the 1 that is a right angle.

PRACTICE

1. You are building a shape from **3** straws laid end to end into a triangle. How many sides does your triangle have?
2. You glue card together to build a cube brick for a tower. How many flat faces does your cube have?
3. You build a square-based pyramid and a cube for a model castle. How many faces has the pyramid, and is that more or fewer than the cube's **6** faces?

ALWAYS, SOMETIMES, NEVER

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

a. A shape with 3 sides is a triangle. ☐

b. A four-sided shape has a right angle. ☐

c. A cube has 6 faces. ☐

d. Asking 'how many faces?' tells a cube apart from a square-based pyramid. ☐

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

SHAPE & SPACE