Year 7 Mathematics Learning Journey: Unit 11 - Constructing and Measuring

Step 17: Draw pie charts

What angles would represent these frequencies in a pie chart?

Manufacturer	Frequency
Volvo	10
BMW	8
Ford	16
Kia	11

Steps 15 and 16: Interpreting pie charts

If one part of two different pie charts are the same size, do they represent the same frequency?

Step 14: Construct more complex polygons

Is it possible to construct an irregular polygon with equal angles?

Steps 12 and 13: Construct triangles – SSS, SAS, ASA

Why can you not construct a triangle with side lengths 4cm, 5cm and 11cm?

Step 11: Identify polygons

When is a polygon regular?

Steps 9 and 10: Recognise triangles and quadrilaterals

What property does every quadrilateral share?

Step 8: Parallel and perpendicular lines

When are two lines perpendicular?

Step 7: Draw and measure 180^0 to 360^0

Draw an angle of 258^0 from a horizontal line.

Steps 5 and 6: Measure and draw angles up to 180^0

How do we know which scale to use when drawing and measuring angles on a protractor?

Step 4: Classify angles

How do we illustrate that an angle is 90^o?

Step 3: Angles as a measure of turn

A diver performs a dive with two and a half turns. How many degrees do they rotate through?

Step 2: Line segments

What is the difference between a line and a line segment?

Achievement resilience Community PERSEVERANCE Pride

SHUTTLEWORTH COLLEGE