Shape

Lesson sequence

- Understand and use degrees
- Classify angles
- Estimate angles
- Measure angles up to 180°
- Draw lines and angles accurately
- Calculate angles around a point
- Calculate angles on a straight line
- Lengths and angles in shapes
- Regular and irregular polygons
- 3-D shapes

Vocabulary

- Regular polygons
- Irregular polygons
- Angles
- Obtuse
- Acute
- Reflex
- Degrees
- Classify
- Protractor
- Right angle
- Estimate

Sticky learning

New Knowledge

- *To know angles are measured in degrees (°)*
- *To know that angles at a point and one whole turn total 360°*
- *To know that angles at a point on a straight line and ½ a turn total 180°*
- *To know that a right angle is 90°*
- *To know the rules of measuring angles*

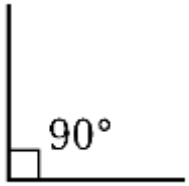
New Skills

- *Draw given angles, and measure them in degrees (°)*
- *To use the properties of rectangles to deduce related facts and find missing lengths and angles*
- *To distinguish between regular and irregular polygons based on reasoning about equal sides and angles*
- *To estimate and compare acute, obtuse and reflex angles*
- *To identify:*
- *angles at a point and one whole turn (total 360°)*
- *angles at a point on a straight line and ½ a turn (total 180°)*
- *other multiples of 90°*
- *To draw lines accurately with a ruler to the nearest millimeter*
- *To measure angles with a protractor*
- *To use angle sum facts and other properties to make deductions about missing angles and relate these to missing number problems*

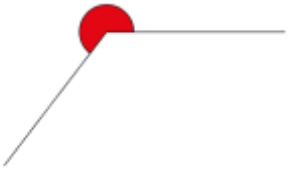
Concept Links/Prior Knowledge

- ***To identify acute and obtuse angles***
- ***Identify angles in a shape***
- ***Know what a polygon is***
- ***Know how many degrees in a right angle***

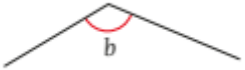
Pictorial representations



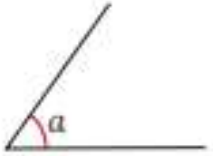
Right angles - 90 ·



Reflex angle – greater than 180 ·, less than 360 ·

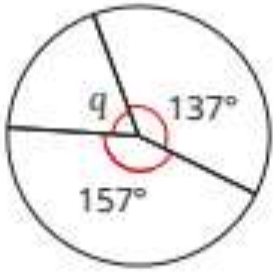


Obtuse angle – greater than a right angle, smaller than 180·



Acute angle – smaller than a right angle

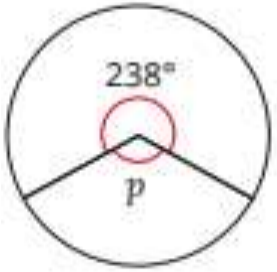
Missing angles



137 + 157 = 294

360 - 294=66

q=66 ·



360 - 238=122

p=122 ·

127 +37 = 164

180 -164 = 16 ·