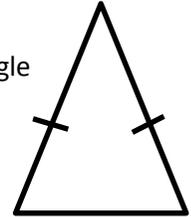


Key Vocabulary	
Angle	A measure of turn, usually given in degrees. Measured with a protractor
Acute angle	An angle less than $90^\circ$
Right angle	An angle of $90^\circ$ , marked with a little square in the corner of the angle
Obtuse angle	An angle greater than $90^\circ$ but less than $180^\circ$
Straight line	$180^\circ$
Reflex angle	An angle greater than $180^\circ$
Full turn	$360^\circ$
Vertically opposite angles	When two straight lines cross over, there will be two pairs of angles that are exactly the same size. These are referred to as vertically opposite angles
Degree	The standard measure of the size of a turn. A full turn is $360^\circ$
Protractor	Mathematical instrument for measuring an angle
Equilateral triangle	A triangle with all three sides the same length and all three angles the same ( $60^\circ$ )
Isosceles triangle	A triangle with two sides the same length and two angles the same size

Key facts / Diagrams	
<p>The angles in a triangle add up to <math>180^\circ</math></p> <p><math>a + b + c = 180^\circ</math></p>	
<p>Angles that make a straight line add up to <math>180^\circ</math></p> <p><math>a + b = 180^\circ</math></p>	
<p>Angles that make a complete turn add up to <math>360^\circ</math></p> <p><math>a + b + c = 360^\circ</math></p>	
<p>Angles that are vertically opposite are equal</p>	

Common misconceptions
<ul style="list-style-type: none"> <li>Students should think about the “reasonableness” of answers. They should estimate the size of angles before they measure or calculate so they know the answer is sensible.</li> <li>Students need to know the “dashes” on lines in a triangle indicate sides that are the same length and which angles are therefore the same size</li> </ul>



Worked examples
<p>The square indicates a right angle, <math>90^\circ</math></p> <p><math>90 + 75 = 165</math></p> <p><math>180 - 165 = 15</math></p> <p><math>x = 15^\circ</math></p>