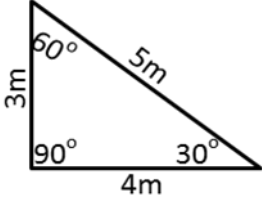
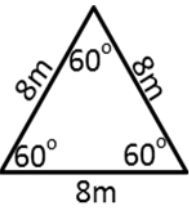
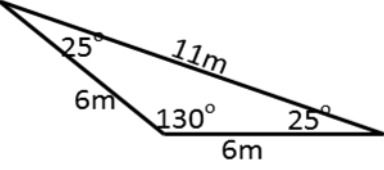


Properties of Triangles Notes

Name _____

Triangle	Sides	Angles
		
		
		

Triangle Inequality Theorem: The _____ of any two sides of a triangle must be _____ than the third side.

Triangle Sum Theorem: The sum of the interior angles of a triangle add up to _____°

Naming Triangles by their...	
SIDES	ANGLES
Equilateral: 3 congruent sides	Right: contains one 90° angles
Isosceles: 2 congruent sides	Acute: contains 3 acute angles
Scalene: no congruent sides	Obtuse: contains one obtuse angle

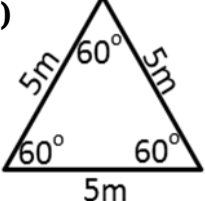
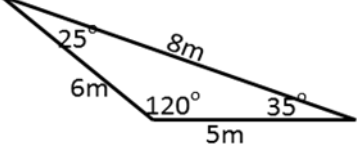
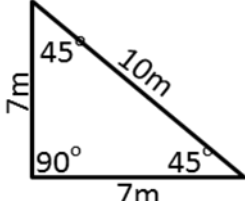
Determine if you make a triangle given the dimension. State why or why not.

1) Side Measurements: 4cm, 6cm, 7cm Angle Measurements: 30°, 60°, 90°

2) Side Measurements: 5cm, 3cm, 10cm Angle Measurements: 35°, 65°, 80°

3) Side Measurements: 14cm, 6cm, 9cm Angle Measurements: 25°, 75°, 90°

Classify each triangle by its sides and angles.

<p>1)</p> 	<p>2)</p> 	<p>3)</p> 
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Pause the video and try these on your own!
Then press play and check your answers with a color pen

Determine if you make a triangle given the dimension. State why or why not.

1) Side Measurements: 14cm, 10cm, 12cm

Angle Measurements: 20° , 30° , 140°

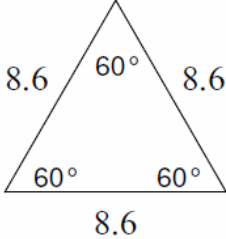
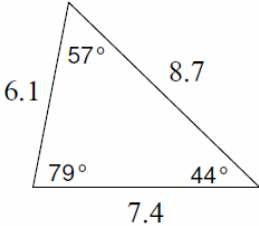
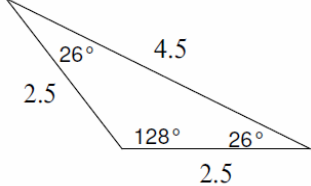
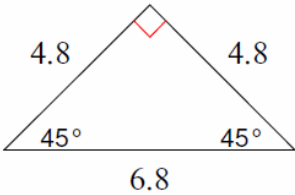
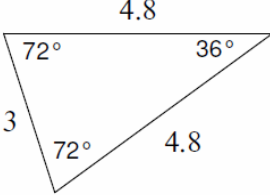
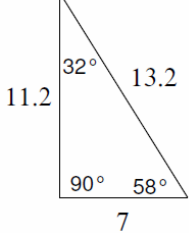
2) Side Measurements: 5cm, 5cm, 7cm

Angle Measurements: 45° , 45° , 90°

3) Side Measurements: 4cm, 6cm, 12cm

Angle Measurements: 45° , 65° , 70°

Classify each triangle by its sides and angles.

<p>1)</p>  <p>8.6 60° 8.6 60° 60° 8.6</p>	<p>2)</p>  <p>6.1 57° 8.7 79° 44° 7.4</p>	<p>3)</p>  <p>26° 4.5 2.5 128° 26° 2.5</p>
<p>4)</p>  <p>4.8 45° 4.8 90° 45° 6.8</p>	<p>5)</p>  <p>4.8 72° 36° 3 72° 4.8</p>	<p>6)</p>  <p>32° 13.2 11.2 90° 58° 7</p>