

## **Classifying Triangles Worksheet**

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Part 1: Building a Foundation					
What is the sum of the internal angles in any triangle?					
Hint: Think about the properties of triangles.					
<ul><li>○ 90 degrees</li><li>○ 180 degrees</li></ul>					
○ 270 degrees					
○ 360 degrees					
Which of the following are characteristics of an equilateral triangle?					
Hint: Consider the properties of equal sides and angles.					
☐ All sides are equal					
☐ All angles are 60 degrees					
Two sides are equal					
One angle is 90 degrees					
Describe the difference between an isosceles triangle and a scalene triangle.					
Hint: Think about the equality of sides.					

List the three types of triangles classified by their angles.



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Hint: Consider the measures of the angles.
1. Type 1
2. Type 2
3. Type 3
Part 2: comprehension and Application
Which type of triangle has one angle greater than 90 degrees?
Which type of triangle has one angle greater than 90 degrees?  Hint: Think about the definitions of triangle types.  Acute
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Given a triangle with angles 50 degrees and 60 degrees, calculate the measure of the third angle and classify the triangle by its angles.

Hint: Use the property of the sum of angles in a triangle.



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ilateral celes lene int  B: Analysis, Evaluation, and Creation  of the following statements is true about scalene triangles? ink about the properties of scalene triangles. y have at least two equal sides.				
Hint: Consider the equality of the sides.				
○ Equilateral				
○ Isosceles				
○ Scalene				
○ Right				
Part 3: Analysis, Evaluation, and Creation				
Which of the following statements is true about scalene triangles?				
Hint: Think about the properties of scalene triangles.				
○ They have at least two equal sides.				
○ All angles are equal.				
○ All sides and angles are different.				
○ They have one right angle.				
Evaluate the following scenarios and determine which could form a valid triangle.				
Hint: Consider the triangle inequality theorem.				
☐ Sides measuring 3 cm, 4 cm, and 5 cm				
Angles measuring 60 degrees, 60 degrees, and 60 degrees				
☐ Sides measuring 2 cm, 2 cm, and 5 cm				
☐ Angles measuring 90 degrees, 45 degrees, and 45 degrees				

Create a real-world problem involving a triangle, describe the scenario, and explain how you would solve it using triangle properties.

Hint: Think about practical applications of triangles.



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t: Consider the	properties of equal an	ngles in isosceles tri	angles.		