

Angle Relationships Worksheet

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Part 1: Building a Foundation
What is the measure of a right angle?
Hint: Think about the standard angle measurements.
○ A) 45 degrees
OB) 90 degrees
C) 180 degrees
○ D) 360 degrees
Which of the following are types of angles? (Select all that apply)
Hint: Consider the definitions of different angles.
A) Acute
☐ B) Right
C) Obtuse
D) Parallel
Explain the difference between complementary and supplementary angles.
Hint: Think about the sums of the angles.

List the sum of angles in a triangle and a quadrilateral.



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Hint: Recall the properties of these shapes.
1. Sum of angles in a triangle
2. Sum of angles in a quadrilateral
If two angles are complementary and one angle measures 30 degrees, what is the measure of the other angle?
Hint: Remember the definition of complementary angles.
○ A) 30 degrees
○ B) 60 degrees
○ C) 90 degrees
○ D) 150 degrees
Part 2: Application and Analysis
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Given a real-world scenario where a ladder leans against a wall forming an angle with the ground, explain how you would determine the angle between the ladder and the wall if the angle with the



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ground is known.
Hint: Consider the relationships between the angles.
If two angles are supplementary and one angle is 120 degrees, what is the relationship of the other angle to a right angle?
Hint: Recall the definition of supplementary angles.
○ A) It is equal to a right angle.
B) It is greater than a right angle.
C) It is less than a right angle.
O) It is not related to a right angle.
Analyze the following statements and identify which are true about angles in a parallelogram. (Select all that apply)
Hint: Consider the properties of parallelograms.
A) Opposite angles are equal.
B) Consecutives angles are supplementary.
C) All angles are right angles.
D) The sum of all angles is 360 degrees.
Part 3: Evaluation and Creation
If a triangle has angles measuring 40 degrees, 60 degrees, and 80 degrees, evaluate whether this triangle can exist.
Hint: Consider the sum of angles in a triangle.
○ A) Yes, it can exist.
○ B) No, it cannot exist.
C) Only if it is an isosceles triangle.
O) Only if it is a right triangle.

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nt: Think about the properties of rectangles.
A) All angles are right angles.
B) Opposite sides are equal.
C) Diagonals bisect each other at right angles.
D) The sum of all angles is 360 degrees.
reate a real-world problem involving angle relationships and provide a solution. Describe the tenario, the angle relationships involved, and how you would solve it. In: Think about practical applications of angle relationships.
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