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Complementary And Supplementary Angles Worksheet

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Part 1: Building a Foundation

What is the sum of the measures of two complementary angles?

Hint: Think about the definition of complementary angles.

◯ A) 45 degrees
◯ B) 90 degrees
◯ C) 180 degrees
◯ D) 360 degrees

What is the sum of the measures of two complementary angles?

Hint: Remember that complementary angles add up to 90 degrees.

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◯ B) 90 degrees
◯ C) 180 degrees
◯ D) 360 degrees

What is the sum of the measures of two complementary angles?

Hint: Remember that complementary angles add up to 90 degrees.

◯ A) 45 degrees
◯ B) 90 degrees
◯ C) 180 degrees
◯ D) 360 degrees

Which of the following statements are true about supplementary angles? (Select all that apply)

Hint: Consider the definition and properties of supplementary angles.

☐ A) They always form a straight line.

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☐ B) Their sum is 180 degrees.

☐ C) They can be adjacent or non-adjacent.

☐ D) They always form a right angle.

Which of the following statements are true about supplementary angles? (Select all that apply)

Hint: Consider the properties of supplementary angles.

☐ A) They always form a straight line.

☐ B) Their sum is 180 degrees.

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☐ A) They always form a straight line.

☐ B) Their sum is 180 degrees.

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☐ D) They always form a right angle.

Explain in your own words what complementary angles are and provide an example.

Hint: Think about the definition and give a specific angle pair.

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Explain in your own words what complementary angles are and provide an example.

Hint: Think about the definition and provide a specific example.

Identify the complementary angle for each of the following:

Hint: Remember that complementary angles add up to 90 degrees.

1. a) 40 degrees

2. b) 75 degrees

3. c) 10 degrees

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Hint: Remember that complementary angles add up to 90 degrees.

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3. c) 10 degrees

Identify the complementary angle for each of the following:

Hint: Remember that complementary angles add up to 90 degrees.

1. a) 40 degrees

2. b) 75 degrees

3. c) 10 degrees

If angle A is 60 degrees, what is the measure of its supplementary angle?

Hint: Think about the definition of supplementary angles.

○ A) 30 degrees
○ B) 90 degrees
○ C) 120 degrees
○ D) 180 degrees

If angle A is 60 degrees, what is the measure of its supplementary angle?

Hint: Supplementary angles add up to 180 degrees.
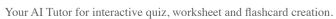
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○ C) 120 degrees
○ D) 180 degrees

Part 2: Comprehension and Application

Which of the following scenarios correctly illustrate supplementary angles? (Select all that apply)

Hint: Think about the definition and properties of supplementary angles.

☐ A) Two angles forming a straight line.
☐ B) Two angles in a triangle.
☐ C) Two angles that add up to 180 degrees.
☐ D) Two angles that form a right angle.

Which of the following scenarios correctly illustrate supplementary angles? (Select all that apply)

Hint: Consider the properties of supplementary angles.

☐ A) Two angles forming a straight line.
☐ B) Two angles in a triangle.
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Hint: Consider the properties of supplementary angles.

☐ A) Two angles forming a straight line.
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☐ D) Two angles that form a right angle.

Describe how you would determine if two angles are supplementary without measuring them directly.

Hint: Consider the properties of angles and their relationships.

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Hint: Think about the properties of angles and their relationships.

In a right triangle, if one of the angles is 35 degrees, what is the measure of the other non-right angle?

Hint: Remember that the sum of angles in a triangle is 180 degrees.

○ A) 35 degrees
○ B) 45 degrees
○ C) 55 degrees
○ D) 65 degrees

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Hint: Remember that the angles in a triangle sum to 180 degrees.

◯ A) 35 degrees
◯ B) 45 degrees
◯ C) 55 degrees
◯ D) 65 degrees

A straight road intersects with another road, forming two angles. If one angle measures 70 degrees, calculate the measure of the other angle and explain your reasoning.

Hint: Consider the properties of supplementary angles.

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Hint: Consider the properties of supplementary angles.

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Part 3: Analysis, Evaluation, and Creation

If two angles are complementary and one angle is twice the other, what are the measures of the two angles?

Hint: Set up an equation based on the definition of complementary angles.

○ A) 30 degrees and 60 degrees
○ B) 45 degrees and 45 degrees
○ C) 60 degrees and 120 degrees
○ D) 90 degrees and 90 degrees

If two angles are complementary and one angle is twice the other, what are the measures of the two angles?

Hint: Set up an equation based on the definition of complementary angles.

○ A) 30 degrees and 60 degrees
○ B) 45 degrees and 45 degrees
○ C) 60 degrees and 120 degrees
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Hint: Set up an equation based on the definition of complementary angles.

○ A) 30 degrees and 60 degrees
○ B) 45 degrees and 45 degrees
○ C) 60 degrees and 120 degrees
○ D) 90 degrees and 90 degrees

Analyze the following statements and identify which are true about complementary and supplementary angles. (Select all that apply)

Hint: Consider the definitions and properties of both types of angles.

☐ A) Complementary angles always form a right angle.
☐ B) Supplementary angles always form a straight line.
☐ C) Two angles can be both complementary and supplementary.
☐ D) The sum of complementary angles is always less than the sum of supplementary angles.

Analyze the following statements and identify which are true about complementary and supplementary angles. (Select all that apply)

Hint: Consider the definitions and properties of both types of angles.

☐ A) Complementary angles always form a right angle.
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Consider a scenario where two angles are supplementary, and one angle is 40 degrees more than the other. Determine the measures of both angles and explain your process.

Hint: Set up an equation based on the definition of supplementary angles.

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Create a problem involving supplementary angles in a real-world context, such as architecture or engineering, and provide a solution to your problem.

Hint: Think about how angles are used in design and construction.

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Create a problem involving supplementary angles in a real-world context, such as architecture or engineering, and provide a solution to your problem.

Hint: Think about how supplementary angles are used in real-world applications.

Create a problem involving supplementary angles in a real-world context, such as architecture or engineering, and provide a solution to your problem.

Hint: Think about how supplementary angles are used in design.

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