

## **Worksheet Complementary And Supplementary Angles**

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Part 1: Building a Foundation

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## What is the sum of two complementary angles? Hint: Think about the definition of complementary angles. A) 45 degrees OB) 90 degrees C) 180 degrees OD) 360 degrees What is the sum of two supplementary angles? Hint: Consider the definition of supplementary angles. A) 45 degrees OB) 90 degrees C) 180 degrees OD) 360 degrees Which of the following statements are true about complementary angles? (Select all that apply) Hint: Think about the properties of complementary angles. A) They always add up to 180 degrees. B) They can be adjacent. C) They always form a linear pair.

Explain in your own words what it means for two angles to be supplementary.

Hint: Consider the definition and properties of supplementary angles.

D) They add up to 90 degrees.



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Provide the complement and supplement of a 30-degree angle.	
Hint: Use the definitions of complement and supplement.	
1. Complement of 30 degrees	
2. Supplement of 30 degrees	$\neg$
Part 2: Understanding and Application	
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If angle A is 60 degrees, what is the measure of its complement?  Hint: Remember that complementary angles add up to 90 degrees.  A) 30 degrees  B) 60 degrees  C) 120 degrees  D) 90 degrees  Which of the following pairs of angles are supplementary? (Select all that apply)	
If angle A is 60 degrees, what is the measure of its complement?  Hint: Remember that complementary angles add up to 90 degrees.  A) 30 degrees  B) 60 degrees  C) 120 degrees  D) 90 degrees  Which of the following pairs of angles are supplementary? (Select all that apply)  Hint: Consider the definition of supplementary angles.	
If angle A is 60 degrees, what is the measure of its complement?  Hint: Remember that complementary angles add up to 90 degrees.  A) 30 degrees  B) 60 degrees  C) 120 degrees  D) 90 degrees  Uhich of the following pairs of angles are supplementary? (Select all that apply)  Hint: Consider the definition of supplementary angles.  A) 90 degrees and 90 degrees	

Describe a real-world scenario where you might encounter complementary angles.



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Hint: Think about everyday objects or situations.	
You have a right triangle with one angle measuring 40 degrees. What is the measure of the other non-right angle?	
Hint: Remember that the angles in a triangle add up to 180 degrees.	
○ A) 40 degrees	
○ B) 50 degrees	
○ C) 60 degrees	
O) 90 degrees	
Given an angle of 75 degrees, calculate both its complement and supplement.	
Hint: Use the definitions of complement and supplement.	
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Part 3: Analysis, Evaluation, and Creation	
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If two angles are both supplements and complements of each other, what are their measures?	
Hint: Consider the definitions of supplementary and complementary angles.	
○ A) 45 degrees each	
B) 90 degrees each	
C) 180 degrees each	
OD) 0 degrees each	

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Which of the following statements correctly describe the relationship between complementary and supplementary angles? (Select all that apply)
Hint: Think about the definitions and properties of both types of angles.
A) All complementary angles are also supplementary.
☐ B) All supplementary angles are also complementary.
C) Complementary angles add up to less than supplementary angles.
D) Supplementary angles can form a straight line.
Analyze the relationship between complementary and supplementary angles in the context of a geometric figure, such as a triangle or quadrilateral.
Hint: Consider how angles interact in different shapes.
Which of the following scenarios correctly uses the concept of supplementary angles?
Hint: Think about practical applications of supplementary angles.
A) Designing a corner shelf

Create a real-world problem involving complementary and supplementary angles, and provide a solution to your problem.

Hint: Think about everyday situations where angles are relevant.

OB) Calculating the height of a building using a shadow

C) Creating a 180-degree turn in a road

O) Building a triangular roof



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