

Adding And Subtracting Integers Worksheet

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Part 1: Building a Foundation

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What is the result of adding two negative integers?
lint: Consider the signs of the integers involved.
A) Positive B) Negative C) Zero D) Undefined
Vhich of the following are integers?
dint: Identify the whole numbers, including negatives.
□ A) -3 □ B) 0.5 □ C) 7 □ D) 2.5
Explain what an integer is and provide three examples.
lint: Think about whole numbers and their negatives.

List the steps involved in subtractING one integer from another.



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Hint: Think about the process of subtraction.	
1. Step 1	
2. Step 2	
3. Step 3	
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What is the opposite of the integer -8?	
Hint: Consider the definition of opposites in integers.	
○ A) 8	
○ B) -8	
○ C) 0	
O) 16	
Part 2: Understanding and Interpretation	
When adding a positive integer to a negative integer, what determines the sign of the result?	
Hint: Think about the absolute values of the integers.	
A) The larger absolute value	
O B) The smaller absolute value	
C) The number of digits	
O) The sum of the integers	
Which of the following statements are true about the number line?	
Hint: Consider the direction of movement on the number line.	
A) Moving right indicates addition.	
B) Moving left indicates subtraction.	
C) Zero is at the center.	
D) Negative numbers are to the right of zero.	

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Describe how you would use a number line to solve the equation 3 - 5.
Hint: Think about the movements on the number line.
Part 3: Application and Analysis
If the temperature is -2°C and it drops by 5°C, what is the new temperature?
Hint: Consider how temperature changes relate to integers.
A) 3°C
○ B) -3°C
○ C) -7°C
○ D) 7°C
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Which of the following expressions result in a positive integer?
Hint: Evaluate each expression carefully.
A) -4 + 6
□ B) 5 - 8 □ C) 3 + 3
C) 3 + 2D) -7 + 10

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A submarine is at a depth of 300 meters below sea level. It ascends 150 meters. What is its new

position relative to sea level?

Hint: Think about how depth changes relate to integers.



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Which of the following expressions is equivalent to 7 - (-3)?	
Hint: Consider the rules of subtractING negative numbers.	
○ A) 7 + 3	
○ B) 7 - 3	
○ C) -7 + 3	
○ D) -7 - 3	
Analyze the following statements and select those that correctly describe properties of operations:	integer
Hint: Think about the properties of addition and subtraction.	
A) The sum of an integer and its opposite is zero.	
B) SubtractING an integer is the same as adding its opposite.	
C) The product of two negative integers is negative.	
D) Zero is the identity element for addition.	
Explain why subtractING a negative integer is equivalent to adding a positive integer.	
Hint: Consider the rules of integer operations.	

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which of the following scenarios correctly applies the concept of integer subtraction?
Hint: Think about real-life situations involving decreases.
A) A bank account balance decreases by \$50 after a deposit.B) A temperature increases by 10°C when it drops by 10°C.
C) A mountain climber descends 200 meters and then ascends 200 meters, returning to the original height.
OD) A vehicle moves forward 10 meters and then reverses 10 meters, ending up 20 meters from the start.
Create an expression that represents the following scenario: A hiker starts at an elevation of 100 meters, climbs 50 meters, descends 30 meters, and then climbs another 20 meters.
Hint: Think about how to represent elevation changes mathematically.
☐ A) 100 + 50 - 30 + 20
☐ B) 100 - 50 + 30 - 20
□ C) 100 + 50 + 30 + 20
□ D) 100 - 50 - 30 + 20
Design a real-world problem involving the addition and subtraction of integers, and provide a solution.
Hint: Think about a scenario that includes both operations.