

Adding And Subtracting Positive And Negative Numbers Worksheet

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Part 1: Building a Foundation

List the rules for adding the following:

Disclaimer: The adding and subtracting positive and negative numbers worksheet was generated with the help of StudyBlaze AI. Please be aware that AI can make mistakes. Please consult your teacher if you're unsure about your solution or think there might have been a mistake. Or reach out directly to the StudyBlaze team at max@studyblaze.io.

What is the result of adding two positive integers?
Hint: Consider the properties of positive numbers.
○ Negative
○ Zero
Opositive
○ Undefined
Which of the following are integers? (Select all that apply)
Hint: Remember that integers include whole numbers and their negatives.
☐ -3
□ 0.5
□ 7
Explain why subtractING a negative number is equivalent to adding a positive number.
Hint: Think about the rules of integer operations.



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Hint: Consider the signs of the numbers involved.
1. A positive and a negative number
2. Two negative numbers
Part 2: Understanding Integer Operations
If you start at -5 on a number line and move 3 units to the right, where do you end up?
Hint: Think about how moving right affects the value.
○ -8
○ -2
O 2
○ 8
Which of the following statements are true about integer operations? (Select all that apply)
Hint: Evaluate each statement based on your knowledge of integers.
Adding two negative numbers always results in a positive number.
SubtractING a positive number from a negative number results in a more negative number.The sum of a number and its opposite is zero.
SubtractING zero from a number does not change the number.
Describe how the number line can be used to visualize the subtraction of integers.
Hint: Consider how movement on the number line represents addition and subtraction.



Part 3: Applying Integer Operations to Real-World Scenarios

A submarine is at a depth of 200 meters below sea level. If it ascends 50 meters, what is its new depth?
Hint: Consider how ascending affects the depth value.
 150 meters below sea level 250 meters below sea level 50 meters below sea level 0 meters (sea level)
Which of the following scenarios involve adding a negative number? (Select all that apply)
Hint: Think about how each scenario affects the total.
A temperature drops by 5 degrees.
A bank account balance increases by \$100.
☐ A hiker descends 300 feet.☐ A car accelerates from 0 to 60 mph.
Calculate the final balance if a bank account starts with \$200, then \$50 is withdrawn, and later \$30 is deposited.
Hint: Consider the sequence of transactions carefully.
Part 4: Analyzing Relationships in Integer Operations
Which operation is equivalent to subtractING -8 from 5?
Hint: Think about how subtractING a negative works.
○ 5 + 8
○ 5 - 8



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○ -5 + 8
○ -5 - 8
Analyze the following statements and identify which are correct regarding integer subtraction. (Select all that apply)
Hint: Evaluate each statement based on your understanding of subtraction.
 SubtractING a larger positive number from a smaller positive number results in a negative number. SubtractING a negative number is the same as adding its positive counterpart. SubtractING zero changes the value of the original number. SubtractING a positive number from a negative number results in a more negative number.
Explain how the rules of adding and subtractING integers can be used to solve the equation: $-3 + x = 2$.
Hint: Consider how to isolate the variable.
Part 5: Synthesis and Reflection
Which of the following expressions results in the largest value?
Hint: Evaluate each expression carefully.
○ -10 + 5
○ -10 - 5
① 10 - 5
① 10 + 5
Evaluate the following scenarios and determine which correctly apply integer operations. (Select all that apply)
Hint: Consider the accuracy of each scenario.
Hint: Consider the accuracy of each scenario. A debt of \$20 is reduced by a payment of \$5, resulting in a debt of \$15.



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A temperature of -10°C increases by 15°C, resulting in a temperature of 5°C.
A car reverses 10 meters and then moves forward 15 meters, ending up 5 meters from the starting point.
A savings account has \$100, and \$50 is withdrawn, leaving \$150.
Create a real-world problem involving the addition and subtraction of integers, and provide a
solution to your problem.
Hint: Think about a scenario that includes both positive and negative values.
Propose two different strategies to solve the equation: $x - (-4) = 7$. Describe each strategy briefly.
Hint: Consider how to manipulate the equation to isolate x.
1. First strategy
2. Second strategy