

Integer Operations Worksheet

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Part 1: Building a Foundation

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What is the definition of an integer?
Hint: Think about the types of numbers.
 A) A fraction B) A whole number that can be positive, negative, or zero C) A decimal number D) A positive number only
Which of the following are examples of integers? (Select all that apply)
Hint: Consider whole numbers, both positive and negative.
□ A) -5□ B) 0□ C) 3.14□ D) 7
Explain the rule for adding two integers with different signs.
Hint: Think about how you combine positive and negative values.

List the steps in the order of operations using the acronym PEMDAS/BODMAS.

Hint: Remember the order in which operations should be performed.
1. What does P stand for?
2. What does E stand for?
2. What does E stand for ?
3. What does MD stand for?
4. What does AS stand for?
Part 2: Comprehension and Application
When subtractING integers, what is the equivalent operation?
Hint: Think about how subtraction can be represented.
○ A) Multiplying by zero
B) Adding the opposite
C) Dividing by two
O) SubtractING the same number
Which properties apply to the addition of integers? (Select all that apply)
Hint: Consider the different properties of addition.
□ A) Commutative Property□ B) Associative Property
C) DistributIVE Property

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Hint: Think about the movement on the number line.



What is the result of the operation (-7) + 4?
Hint: Consider the signs of the numbers involved.
○ A) -11
○ B) -3
○ C) 3
OD) 11
Which of the following everyonisms correctly apply the distributive property? (Calcat all that apply)
Which of the following expressions correctly apply the distributIVE property? (Select all that apply)
Hint: Think about how to distribute multiplication over addition.
\square A) 3(4 + 5) = 3*4 + 3*5
☐ B) 2(6 - 3) = 2*6 - 2*3
\bigcirc C) 5 + (2*3) = 5*2 + 5*3
Solve the expression 2(3 - 5) + 4 using the order of operations and explain each step.
Hint: Break down the expression step by step.
Part 3: Analysis, Evaluation, and Creation
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If a number is multiplied by -1, what is the effect on the number?

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Hint: Consider how multiplication affects the sign of a number.
○ A) It becomes zero
B) It becomes positive
C) It becomes negative
O) It changes sign
Analyze the following operations and determine which are correct. (Select all that apply)
Hint: Evaluate each operation carefully.
☐ A) (-3) * (-2) = 6
□ B) 4 ÷ (-2) = -2
C) (-5) + (-5) = -10
□ D) 7 - (-3) = 4
Break down the expression (-2) $*$ (3 + 4) and explain the steps to solve it using the distributIVE property.
Hint: Think about how to distribute the multiplication.
Which statement best evaluates the expression 5 - (2 + 3)?
Hint: Consider the order of operations.
A) The result is positive
B) The result is pagetive
C) The result is negativeD) The result is undefined
Obj The result is undefined
Evaluate the following scenarios and determine which involve integer operations. (Select all that apply)
Hint: Think about the context of each scenario.
A) Calculating the balance after a withdrawal from a bank account
B) Measuring the temperature change from morning to afternoon

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C) Finding the average of a set of decimal numbers D) Determining the distance traveled by a car	
Create a real-world problem involving the addition and subtraction of integers, and solve it. Provide a detailed explanation of your solution process.	3
Hint: Think about a scenario that requires both operations.	