

Subtracting Integers Worksheet Questions and Answers PDF

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Part 1: Building a Foundation

What is the definition of an integer?
Hint: Think about the types of numbers that can be classified as integers.
 A) A fraction B) A whole number that can be positive, negative, or zero ✓ C) A decimal number D) A number with a square root
An integer is a whole number that can be positive, negative, or zero.
Which of the following are integers? (Select all that apply)
Hint: Identify the numbers that fit the definition of integers.
□ A) -3 ✓□ B) 0 ✓
□ C) 2.5□ D) 7 ✓

Explain the rule for subtractING a negative integer from another integer.

Hint: Consider how subtraction interacts with negative numbers.



SubtractING a negative integer is equivalent to adding its positive counterpart. List the steps involved in subtractING integers using the number line. Hint: Think about how you would visualize the subtraction process. Step 1 I Identify the first integer. Step 2 Locate the second integer.
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. Step 2 Locate the second integer.
Locate the second integer.
. Step 3
Move left for subtraction.
The steps include identifying the integers, locating them on the number line, and moving left or right based on the operation.
Part 2: Understanding and Interpretation



smaller positive integer?
Hint: Consider the implications of subtractING larger numbers.
 A) The result is always positive. B) The result is always zero. C) The result is always negative. ✓ D) The result is always a fraction.
The result is always negative.
When subtractING integers, which of the following statements are true? (Select all that apply)
Hint: Think about the properties of subtraction.
 A) SubtractING a positive integer is the same as adding a negative integer. ✓ B) SubtractING a negative integer is the same as adding a positive integer. ✓ C) SubtractING zero from any integer changes the integer. D) SubtractING an integer from itself results in zero. ✓
The true statements include subtractING a positive integer is like adding a negative integer, and subtractING an integer from itself results in zero.
Describe how the number line can be used to solve the subtraction problem 5 - (-3).
Hint: Think about how you would visualize this operation on a number line.
You would start at 5 and move to the right 3 units, resulting in 8.
Part 3: Application and Analysis

Which statement correctly describes the result of subtractING a larger positive integer from a



What is the result of the subtraction -4 - 6?
Hint: Consider how subtractING a positive integer affects a negative integer.
○ A) 10
O B) -10 ✓
O C) 2
○ D) -2
The result is -10.
Which of the following problems involve subtractING a negative integer? (Select all that apply)
Hint: Identify the problems that include a negative integer in the subtraction.
☐ A) 8 - 5
B) 7 - (-2) ✓
C) -3 - 4
□ D) -6 - (-1) ✓
The problems that involve subtractING a negative integer are 7 - (-2) and -6 - (-1).
Solve the subtraction problem -9 - (-4) and explain your reasoning.
Hint: Think about how subtractING a negative integer affects the result.
The result is -5 because subtractING -4 is the same as adding 4.
Part 4: Evaluation and Creation

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If x - y = z, which of the following must be true?



Hint: Consider how to rearrange the equation to isolate x.
 A) x = y + z √ B) x = y - z C) x = z - y D) x = -y - z
The correct statement is $x = y + z$.
Analyze the following statements and identify which are correct regarding integer subtraction. (Select all that apply)
Hint: Evaluate the properties of integer subtraction.
 A) SubtractING a negative integer always results in a larger integer. ✓ B) SubtractING a positive integer always results in a smaller integer. ✓ C) The subtraction of two negative integers can result in a positive integer. ✓ D) SubtractING zero from any integer results in the same integer. ✓
The correct statements are A, B, C, and D.
Analyze the subtraction -5 - 7 and explain why the result is negative.
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