

# Subtracting Integers 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 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

#### 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.*

#### List the steps involved in subtractING integers using the number line.

*Hint: Think about how you would visualize the subtraction process.*

1. Step 1

2. Step 2

3. Step 3

## Part 2: Understanding and Interpretation

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

**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.

**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.*

### Part 3: Application and Analysis

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**What is the result of the subtraction  $-4 - 6$ ?**

*Hint: Consider how subtractING a positive integer affects a negative integer.*

- A) 10
- B) -10
- C) 2
- D) -2

**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)  $-6 - (-1)$

**Solve the subtraction problem  $-9 - (-4)$  and explain your reasoning.**

*Hint: Think about how subtractING a negative integer affects the result.*

## 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)  $x = -y - z$

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.

Analyze the subtraction  $-5 - 7$  and explain why the result is negative.

*Hint: Consider the values of the integers involved.*

Which subtraction problem will result in the smallest integer?

*Hint: Consider the values of each option carefully.*

- A)  $3 - 7$
- B)  $-2 - 5$
- C)  $-8 - (-3)$
- D)  $0 - 6$

**Evaluate the following scenarios and determine which involve a change in direction on the number line. (Select all that apply)**

*Hint: Think about how movement on the number line works.*

- A) Moving from 5 to -3
- B) Moving from -2 to 4
- C) Moving from 0 to -5
- D) Moving from -7 to -7

**Create a real-world scenario where subtractING integers is necessary, and explain how you would solve it using the rules of integer subtraction.**

*Hint: Think about situations where you might lose or owe something.*