

Subtracting Integers Answer Key

Subtracting Integers Quick Check	
Name _____	Answer Key
Date _____	Period _____
1) $7 - 4 =$	3
2) $4 - (-5) =$	9
3) $3 - 8 =$	-5
4) $-1 - 6 =$	-7
5) $-2 - (-3) =$	1
6) $-1 - (-1) =$	0
7) $-9 - 7 =$	-16
8) $-4 - (-1) =$	-3
9) $-5 - (-5) =$	0
10) $4 - (-4) =$	8

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Subtracting integers answer key is a fundamental concept in mathematics that students often encounter early in their education. Understanding how to subtract integers is essential not only for mastering basic arithmetic but also for tackling more advanced mathematical concepts later on. This article will provide a comprehensive overview of subtracting integers, including rules, examples, and practical tips to help students grasp this important topic. Additionally, we will include an answer key for common integer subtraction problems to reinforce learning.

Understanding Integers

Before diving into the specifics of subtracting integers, it's crucial to understand what integers are. Integers are whole numbers that can be positive, negative, or zero. The set of integers is represented as follows:

- Positive integers: 1, 2, 3, ...
- Negative integers: -1, -2, -3, ...
- Zero: 0

In the context of subtraction, both positive and negative integers play a significant role.

The Basics of Subtracting Integers

Subtracting integers can sometimes be confusing, especially when dealing with negative numbers. However, there are straightforward rules to follow. Here are the basic rules for subtracting integers:

1. Subtracting a Positive Integer

When you subtract a positive integer from another integer, you move to the left on the number line.

- Example:
- $(5 - 3 = 2)$
- In this example, you start at 5 and move left 3 places to arrive at 2.

2. Subtracting a Negative Integer

When you subtract a negative integer, it is equivalent to adding its positive counterpart. This is often referred to as "subtracting a negative is like adding a positive."

- Example:
- $(5 - (-3) = 5 + 3 = 8)$
- Here, subtracting -3 means you move right on the number line, resulting in 8.

3. Subtracting Zero

Subtracting zero from any integer does not change its value.

- Example:
- $(5 - 0 = 5)$
- Here, the value remains the same.

Visualizing Integer Subtraction

Using a number line can greatly aid in understanding how to subtract integers. A number line is a visual representation of numbers laid out in a straight line, where:

- Positive integers are to the right of zero.
- Negative integers are to the left of zero.

Here's how you can visualize the three types of integer subtraction:

1. Positive Minus Positive

- Start at a positive integer and move left according to the second integer.

2. Positive Minus Negative

- Start at a positive integer and move right since subtracting a negative is like adding.

3. Negative Minus Positive

- Start at a negative integer and move left, which will take you further into negative values.

Common Mistakes in Subtracting Integers

While learning to subtract integers, students often make several common mistakes. Here are a few to watch out for:

- Confusing subtraction of a negative with subtraction of a positive.
- Failing to change the sign of the second integer when subtracting.
- Not using a number line for visualization, leading to errors in calculation.

Practice Problems

To reinforce the concept of subtracting integers, here are some practice problems:

1. $7 - 4 = ?$
2. $-2 - 5 = ?$
3. $-3 - (-6) = ?$
4. $10 - (-2) = ?$
5. $0 - 8 = ?$

Answer Key for Subtracting Integers

Here is the answer key for the practice problems provided above:

1. $7 - 4 = 3$
2. $-2 - 5 = -7$
3. $-3 - (-6) = 3$
4. $10 - (-2) = 12$
5. $0 - 8 = -8$

Tips for Mastering Integer Subtraction

To become proficient in subtracting integers, consider the following tips:

- Practice regularly with different sets of integers to build confidence.
- Use a number line as a visual aid to help with understanding.
- Check your work by reversing the operation; if $(a - b = c)$, then $(c + b)$ should equal (a) .
- Work through word problems that involve integer subtraction to see the application in real-life scenarios.

Conclusion

In conclusion, understanding how to subtract integers is a critical skill in mathematics. By following the rules, visualizing problems on a number line, and practicing regularly, students can overcome difficulties in this area. The provided answer key serves as a valuable resource for checking work and ensuring comprehension. Embracing these strategies will lead to greater success in both basic arithmetic and more complex mathematical concepts in the future. Whether you're a student, teacher, or parent, mastering integer subtraction is a stepping stone to a solid foundation in mathematics.

Frequently Asked Questions

What is the result of subtracting a negative integer from a positive integer?

When you subtract a negative integer from a positive integer, it's equivalent to adding the absolute value of that negative integer to the positive integer.

How do you subtract two negative integers?

To subtract two negative integers, you can convert the subtraction into addition by changing the sign of the integer being subtracted and then add the two integers.

What is the result of subtracting 5 from -3?

The result of subtracting 5 from -3 is -8, calculated as $-3 - 5 = -8$.

If you have the expression $7 - (-2)$, what is the answer?

The answer is 9, since subtracting a negative is the same as adding: $7 - (-2) = 7 + 2 = 9$.

What is the rule for subtracting integers with different signs?

When subtracting integers with different signs, you subtract their absolute values and take the sign of the integer with the larger absolute value.

How can you check your answer when subtracting integers?

You can check your answer by reversing the operation: if you subtracted b from a to get c ($a - b = c$), you can add b back to c ($c + b$) and see if you return to a .

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