



# Adding And Subtracting Negative Integers Worksheet

**Practice Negative Number and Addition and Subtraction**

**Section A**

1) $2 - 7 =$	7) $-8 - 11 =$
2) $-4 + 8 =$	8) $-15 + 1 =$
3) $-2 + 12 =$	9) $-12 + 14 =$
4) $-7 - 4 =$	10) $-10 + 23 =$
5) $9 - 10 =$	11) $-6 - 11 =$
6) $-7 + 4 =$	12) $-12 - 17 =$

**Section B**

1) $2 + -6 =$	7) $3 - -4 =$
2) $-9 - +9 =$	8) $8 - -5 =$
3) $4 + -3 =$	9) $10 - -6 =$
4) $3 - +8 =$	10) $-7 - -3 =$
5) $-2 + -4 =$	11) $-1 - -3 =$
6) $-5 - +5 =$	12) $-6 - -2 =$

**Section C**

1) $-8 - -12 =$	7) $-17 + -9 =$
2) $-8 + -10 =$	8) $-8 - +19 =$
3) $-16 - +7 =$	9) $-54 - +24 =$
4) $27 + -5 =$	10) $-10 - -8 =$
5) $-17 - -3 =$	11) $9 - +20 =$
6) $-3 - -14 =$	12) $-18 - -33 =$

**Section D**

1) $7 - +2 - -4 =$	6) $2 + (5 - -3) =$
2) $-5 - -4 + -2 =$	7) $-11 + (-8 - -2) =$
3) $4 + -6 - -7 =$	8) $7 - (-2 + -6) =$
4) $-3 - -9 + -9 =$	9) $(-4 + -2) + (4 - -9) =$
5) $18 + -3 - -4 =$	10) $3 - ((-1 + -5) - 12) =$

## Adding and Subtracting Negative Integers Worksheet

Understanding how to add and subtract negative integers is a fundamental skill in mathematics that lays the groundwork for more advanced concepts. This worksheet is designed to help students practice these operations, reinforcing their ability to work with integers in various contexts. The mastery of adding and subtracting negative integers will not only improve numerical fluency but also enhance problem-solving skills in real-life situations. This article will provide a comprehensive overview of the topic, including definitions, rules, examples, and tips for creating an effective worksheet.

# Understanding Integers

Before delving into the operations of addition and subtraction involving negative integers, it is essential to understand what integers are.

## Definition of Integers

Integers are a set of numbers that include:

- Positive whole numbers (1, 2, 3, ...)
- Negative whole numbers (-1, -2, -3, ...)
- Zero (0)

Integers do not include fractions or decimals. The number line is a helpful visual representation of integers, with positive integers extending to the right of zero and negative integers extending to the left.

## Importance of Negative Integers

Negative integers play a crucial role in various mathematical contexts, including:

- Temperature: Representing temperatures below zero.
- Finance: Indicating debt or loss.
- Elevation: Denoting locations below sea level.

Understanding how to manipulate negative integers is vital for real-world applications in these areas.

## Rules for Adding and Subtracting Negative Integers

To effectively add and subtract negative integers, students must grasp several key rules. These rules can often be summarized succinctly, making them easier to remember.

### Rules for Addition

1. Adding Two Positive Integers: The sum is positive.  
- Example:  $3 + 2 = 5$
2. Adding Two Negative Integers: The sum is negative.  
- Example:  $-3 + (-2) = -5$

3. Adding a Positive Integer and a Negative Integer: Subtract the absolute values and take the sign of the number with the larger absolute value.

- Example 1:  $5 + (-3) = 5 - 3 = 2$

- Example 2:  $-5 + 3 = -5 + (-3) = -2$

## Rules for Subtraction

1. Subtracting a Positive Integer from a Positive Integer: The result depends on the relative values.

- Example:  $5 - 3 = 2$

2. Subtracting a Negative Integer from a Positive Integer: This is equivalent to addition.

- Example:  $5 - (-3) = 5 + 3 = 8$

3. Subtracting a Positive Integer from a Negative Integer: This will result in a more negative number.

- Example:  $-5 - 3 = -8$

4. Subtracting a Negative Integer from a Negative Integer: This is equivalent to addition.

- Example:  $-5 - (-3) = -5 + 3 = -2$

## Creating an Adding and Subtracting Negative Integers Worksheet

A well-structured worksheet is crucial for effective practice. Below are key components to consider when creating an adding and subtracting negative integers worksheet.

### Worksheet Structure

1. Title: Clearly label the worksheet to indicate its purpose, e.g., "Adding and Subtracting Negative Integers Worksheet".

2. Instructions: Provide clear instructions on what the students are expected to do. For example, "Solve the following problems by adding or subtracting the integers."

3. Problem Types: Include a variety of problems that cover all the rules discussed. This will help reinforce understanding through practice.

4. Space for Work: Ensure there is ample space for students to show their work, which encourages the practice of writing out steps rather than relying solely on mental calculations.

# Sample Problems

Here are examples of problems that can be included in the worksheet:

Addition Problems:

1.  $-7 + (-3) = ?$
2.  $4 + (-2) = ?$
3.  $-6 + 9 = ?$
4.  $-2 + (-5) = ?$
5.  $8 + (-10) = ?$

Subtraction Problems:

1.  $-5 - 4 = ?$
2.  $3 - (-2) = ?$
3.  $-3 - (-7) = ?$
4.  $10 - 15 = ?$
5.  $-8 - 2 = ?$

Mixed Problems:

1.  $-4 + 6 - (-3) = ?$
2.  $7 - (-5) + (-2) = ?$
3.  $-9 + (-1) - 2 = ?$
4.  $-3 - 4 + 5 = ?$
5.  $0 - (-6) + 2 = ?$

## Tips for Effective Practice

To maximize the effectiveness of the worksheet, consider the following tips:

### Encourage Students to Use Number Lines

Using a number line can help students visualize the operations. It serves as a useful tool for understanding how numbers interact. Encourage students to draw number lines when solving problems, especially for addition and subtraction involving negative integers.

### Incorporate Real-Life Scenarios

Relating problems to real-life situations can make learning more engaging. For instance, ask students to calculate temperatures in winter, account for expenses, or determine changes in elevation. This contextualization helps solidify their understanding of why these calculations are important.

## **Provide Immediate Feedback**

After students complete the worksheet, review the answers together. Provide explanations for any mistakes, emphasizing the rules of adding and subtracting negative integers. This immediate feedback loop enhances learning and retention.

## **Conclusion**

Adding and subtracting negative integers may seem daunting, but with practice, students can master these skills. A well-structured worksheet, combined with clear instructions, diverse problems, and useful strategies, provides an excellent resource for practice. By understanding the rules and applying them in various contexts, students will gain confidence in their mathematical abilities, preparing them for more advanced concepts in the future. Through consistent practice and engagement with the material, they will develop a solid foundation in working with integers, paving the way for success in mathematics and beyond.

## **Frequently Asked Questions**

### **What is the best way to explain adding negative integers to students?**

Using a number line can be very helpful. Start by explaining that moving to the left represents adding a negative integer and moving to the right represents adding a positive integer.

### **How can I create an engaging worksheet for adding and subtracting negative integers?**

Incorporate real-life scenarios, such as temperatures below zero or debts in finance, to relate the concepts to everyday situations. Include a mix of multiple-choice questions, word problems, and fill-in-the-blank sections.

### **What are common mistakes students make when adding and subtracting negative integers?**

Students often confuse the rules for adding and subtracting negatives, such as thinking that two negative signs cancel each other out. It's important to clarify that adding a negative is the same as subtracting a positive.

### **How can I assess my students' understanding of adding and subtracting negative integers using a worksheet?**

Include a variety of problems that assess both procedural fluency and conceptual

understanding, such as word problems, and have students explain their reasoning in writing.

## **Are there online resources available for creating negative integer worksheets?**

Yes, there are many online platforms like Teachers Pay Teachers, Education.com, and Math-Aids.com that offer customizable worksheets and interactive games focused on adding and subtracting negative integers.

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