

# lesson seven - student resource sheet

**Lesson Objective:** Add integers with like and unlike signs.

## Vocabulary Box

**absolute value** — The distance of a number from zero; the positive value of a number.  
Example: The absolute value of  $-6$  is 6. The absolute value of 7 is 7.

**additive inverse** — For any number  $x$ , the number that gives zero when added to  $x$ .  
Examples: The additive inverse of 4 is  $-4$ ; the additive inverse of  $-10$  is 10.



## Guided Practice

Directions: Complete the following practice problems with your partner. Your teacher will review the answers. Make sure you show all your work.

I. Solve each addition problem to complete the table. Use your two-color counters.

3	+	5	=	
3	+	$-5$	=	
$-3$	+	$-5$	=	
$-3$	+	5	=	
$-7$	+	4	=	
$-2$	+	3	=	

II. Solve each addition problem.

1.  $-12 + 8 =$  \_\_\_\_\_

2.  $-25 + -32 =$  \_\_\_\_\_

3.  $49 + -17 =$  \_\_\_\_\_

III. Solve each addition problem. Please work independently.

1.  $-5 + -106 =$  \_\_\_\_\_

2.  $78 + (-78) =$  \_\_\_\_\_

3.  $-134 + 65 =$  \_\_\_\_\_



## Summary/Closure

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### A. Vocabulary Words

For each vocabulary term listed, write a definition, and then give two examples of each.

absolute value —

additive inverse —

### B. Summarize What We Learned Today

For each type of addition problem, write a rule in your own words. Be sure to include whether to add or subtract the absolute values and how you know the sign of the answer.

positive + positive

negative + negative

positive + negative

# lesson eight - student resource sheet

**Lesson Objective:** Add integers with like and unlike signs.

## Vocabulary Box

**absolute value** — The distance of a number from zero; the positive value of a number.  
Examples: The absolute value of  $-6$  is 6; the absolute value of 7 is 7.

**additive inverse** — For any number  $x$ , the number that gives zero when added to  $x$ .  
Examples: The additive inverse of 4 is  $-4$ ; the additive inverse of  $-10$  is 10.



## Independent Practice

Directions: Complete the following practice problems on your own. Your teacher will review the answers. Make sure you show all your work.

I. Will the sum be positive or negative? Circle your answer.

- $-8 + -7$  is (positive, negative)
- $9 + -3$  is (positive, negative)
- $-35 + -12$  is (positive, negative)

II. Solve each addition problem.

- $-99 + -1 =$  \_\_\_\_\_
- $-78 + 19 =$  \_\_\_\_\_
- $-38 + 56 =$  \_\_\_\_\_
- $-857 + 978 =$  \_\_\_\_\_
- $1,294 + -5,247 =$  \_\_\_\_\_
- $-99 + -341 =$  \_\_\_\_\_
- $263 + -263 =$  \_\_\_\_\_



Fill in the blanks to solve the problem.

1.  $-1 + -63 + 47 = \underline{\hspace{2cm}}$
2.  $-21 + 38 + -50 = \underline{\hspace{2cm}}$
3.  $1,237 + -872 + 365 = \underline{\hspace{2cm}}$

### Problem Solving



In a trivia game, you are given 100 points for each correct answer and  $-50$  points for each incorrect answer. If you do not answer the question, you get 0 points. Fill in the final scores of the players listed in the table, and then answer the questions below.

Name	Question 1	Question 2	Question 3	Question 4	Question 5	Final Score
Ann	Correct	Incorrect	Correct	Incorrect	No Answer	
Bob	Correct	Incorrect	Incorrect	Incorrect	Correct	
Cindy	Incorrect	Correct	Incorrect	Correct	Correct	

1. Who won the game?
2. How many points would a player receive if he or she answered all of the questions correctly?
3. How many points would a player receive if he or she answered all of the questions incorrectly?

# lesson eight - student resource sheet



1. What is the additive inverse of  $-77$ ?
2. What is the sum of  $12 + -5$ ?
3. What is the sum of  $-61 + 9$ ?



# lesson nine - student resource sheet

**Lesson Objective:** Subtract positive integers from positive and negative integers.

## Vocabulary Box

**additive identity** — The number zero, because the sum of zero and any number is that number. Example:  $6 + 0 = 6$ .



## Guided Practice

Directions: Complete the following practice problems with your partner. Your teacher will review the answers. Make sure you show all your work.

- I. Use the integer mat and two-color counters to solve each problem. Check each answer using the number line.

1.  $10 - 4 =$  \_\_\_\_\_

2.  $5 - 6 =$  \_\_\_\_\_

3.  $-2 - 3 =$  \_\_\_\_\_

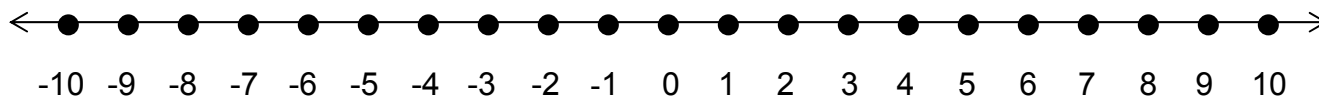
4.  $3 - 7 =$  \_\_\_\_\_

## Integer Mat

Negative	Positive



# lesson nine - student resource sheet



II. Rewrite each problem as an addition problem, then solve. Use the number line to check your answers. You may need to extend the number line by filling in more negative integers.

1.  $-7 - 8 =$  \_\_\_\_\_

2.  $10 - 16 =$  \_\_\_\_\_

3.  $3 - 8 =$  \_\_\_\_\_

4.  $-9 - 4 =$  \_\_\_\_\_

III. Rewrite each problem as an addition problem, then solve. Please work on your own.

1.  $-34 - 12 =$  \_\_\_\_\_

2.  $47 - 52 =$  \_\_\_\_\_

3.  $102 - 256 =$  \_\_\_\_\_



## Summary/Closure

### A. Vocabulary Words

For the vocabulary term listed, write a definition in your own words. Then tell how it relates to subtracting integers.

additive identity —

### B. Summarize What We Learned Today

Write a sample problem in which you subtract a positive integer from a negative integer, and then solve it. Explain how you solved the problem.

