

Name: _____

Date: _____



Introduction to Integers

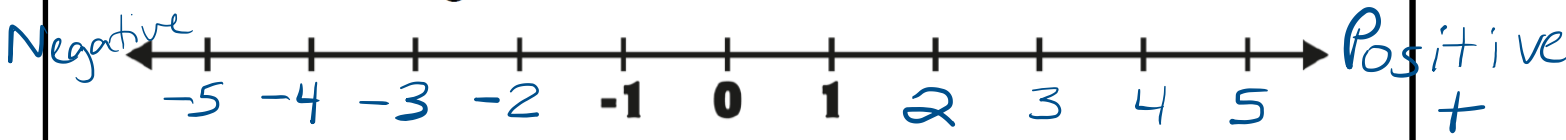
GUIDED NOTES

IMPORTANT VOCABULARY:

- **Opposites:** Numbers that are the same distance from zero on a number line, but in different directions.
- **Integers:** The set of all whole numbers and their opposites. 5 and -5 20 and -20 etc

INTRODUCTION TO INTEGERS

1. Positive numbers are greater than 0.
2. Sometimes positive numbers are written with a + sign.
3. If a number doesn't have a sign in front of it, it is understood that it is positive.
4. What are some examples of positive numbers?
2, 25, 37, 568, etc.
5. Numbers that are less than 0 are called negative numbers.
6. Negative numbers are always written with a - sign.
7. What are some examples of negative numbers?
-4, -10, -100, etc.
8. Fill in the missing numbers on the number line:

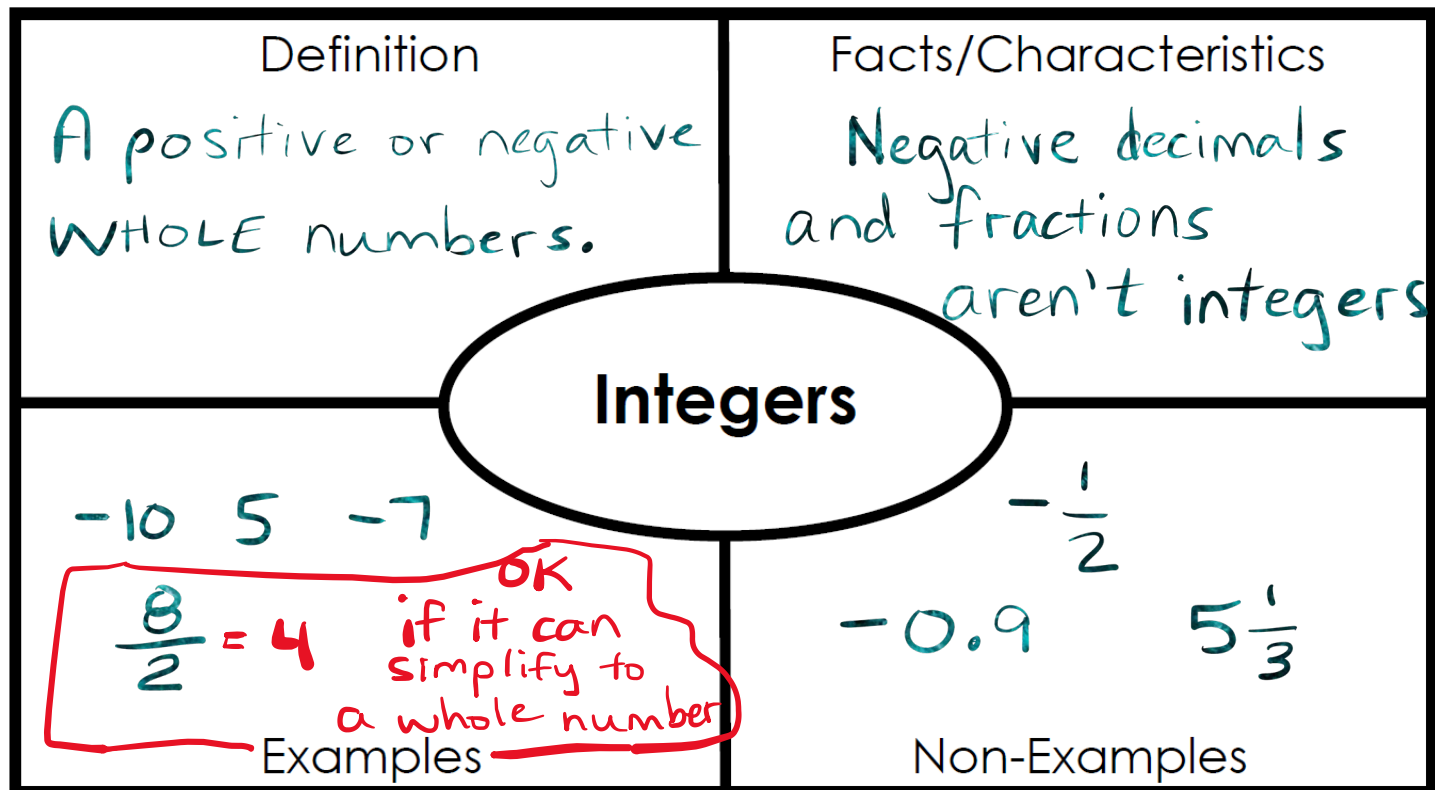
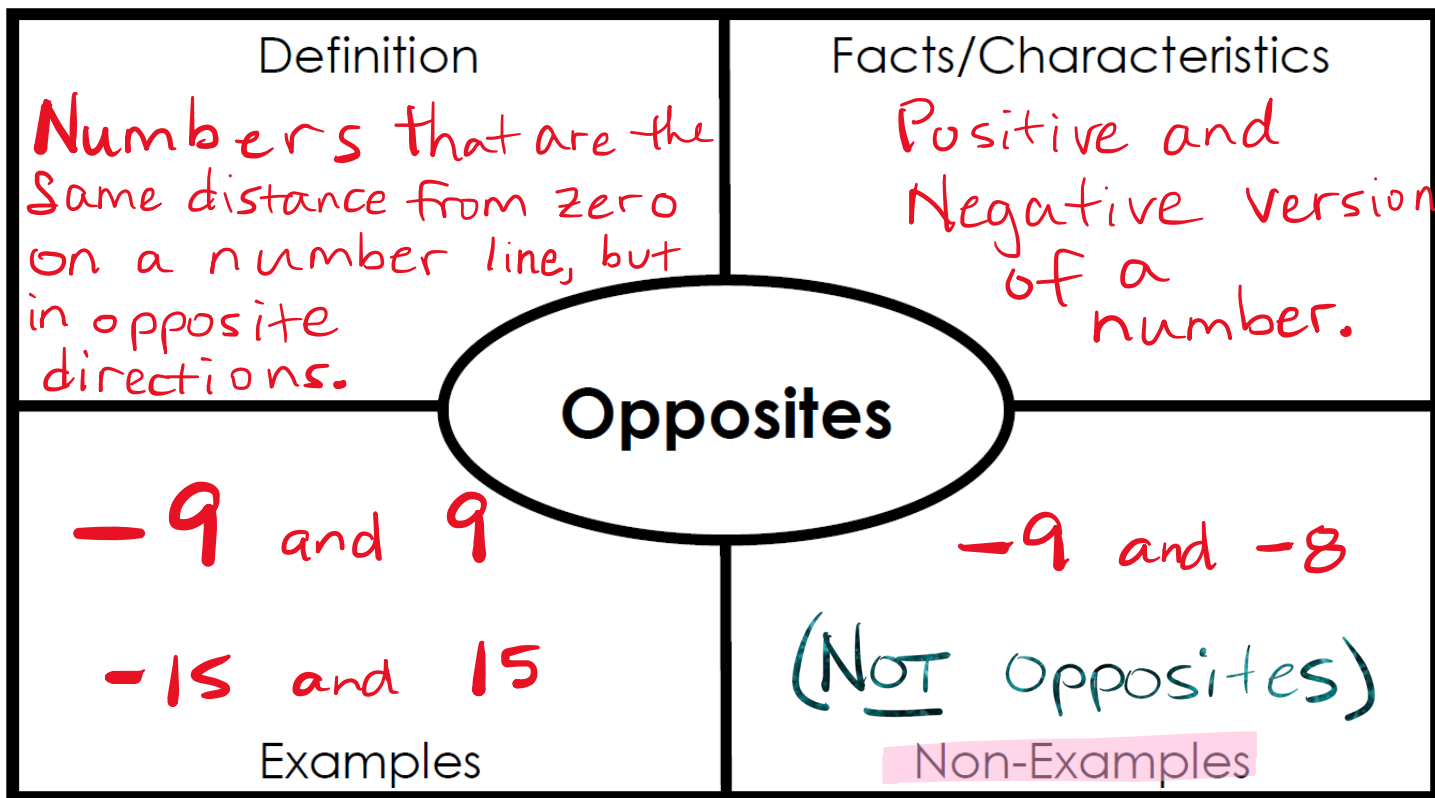


GUIDED PRACTICE

Negative Key Words		Positive Key Words		
Loss	Spending	Profit	Ascend	
Below Sea Level		Above Sea Level		
Withdraw	Descend	Deposit	Saving	
Profit +	Loss -	Below Sea Level -	Above Sea Level +	Withdraw -
Deposit +	Ascend +	Descend -	Saving -	Spending -

<p>#1 What integer represents saving \$65?</p> <p>65 or +65</p>	<p>#2 What integer represents spending \$100?</p> <p>-100</p>
<p>#3 What integer represents scoring 13 points?</p> <p>13</p>	<p>#4 What integer represents 45 feet above sea level?</p> <p>45</p>
<p>#5 What integer represents 3 degrees below zero?</p> <p>-3</p>	<p>#6 What integer represents depositing \$22 into your bank account?</p> <p>22</p>
<p>#7 What integer represents an airplane descending 1,000 feet?</p> <p>-1000</p>	<p>#8 What integer represents 125 feet below sea level?</p> <p>-125</p>

#9 In the space below, draw and label the surface of the ocean, a bird that is 25 feet above sea level and a fish that is 50 feet below sea level.



Introduction to Integers Assessment

Select the correct answer for each question.

- Which number is the opposite of 9?
 - 9
 - 1
 - 9
 - 91
- Which two numbers are a pair of opposites?
 - 50, 45
 - 5, -4
 - 5, -5
 - 4, 4
- What integer represents ascending 400 feet?
 - 400
 - 0
 - 40
 - 400
- What integer represents losing 6 pounds?
 - 6
 - 0.6
 - 0
 - 6
- What integer represents gaining 10 followers?
 - 10
 - 0
 - 10
 - 100
- Select each situation that represents a negative integer.
 - Withdrawing \$10
 - 10 feet below sea level
 - Increasing 10 levels
 - 10 degrees below zero
 - A \$10 profit

Answer the question below. Be sure to show all of your work.

- Draw and label a number line that goes from -20 to 20, counting by 2s.