Name:	_
Ms. Napolitano	
l can <u>:</u>	

<u>Try Now (01)</u>

Directions: Using the picture below, answer the following questions.





Bonus: Which of these sea creatures do you like the most and why?



Think-Pair-Share



Stop and Jot

Write down real world examples where both positive and negative integers are used.



Model

Ms. Napolitano owed her mother \$9 dollars. On Sunday Ms. Napolitano gave her mother \$5 back, how much money does Ms. Napolitano still owe her mother?

- a) Write the integer for the amount of money Ms. Napolitano owes her mother.
- b) Write the integer for the money that she gave her mother back.
- c) Create a equation that represents this situation. Use x, for the amount of money Ms. Napolitano still owes her mother.
- d) Solve your answer on the number line below.





Model #2

Use the number line below to determine the sum of 3 + 5



Model #3

Use the number line below to determine the sum of -3 + 5.



Answer: ______

Model #4

Use the number line below to determine the sum of -3 + (-5)



Answer: _____

Model #5

Use the number line below to determine the sum of 3 + (-5)



Answer: _____

Think-Pair-Share

Is there a rule that you can create that when you are determing the sum of different signs?

"THE RULES ... "

Guided Practice #1

Use the number line below to determine the sum of -8 + 8



Answer: _____

Guided Practice #2

Use the number line below to determine the sum of -8 + 7



Answer: _____

Guided Practice #3

Use the number line below to determine the sum of 7 + (-8)



Answer: _____

Think-Pair-Share

1) Why is the sum of -8 + 7 and 7+ (-8) the same? Justify your answer.

Group Work

1) Use the number line below to determine the sum of -10 + 12



2) If a suba diver dives -9 feet below sea level and swims up five feet to see the dolphins, how many feet below sea level will the suba diver be when he swims up to see the dophins? Show your answer on the number line below.

3) Use the number line below to determine the sum of -1 + (-5)



Answe	

Name:	
Ms. Napolitano	

Date:_____ Integers

Day 1 Level A

Directions: Represent the following situations as positive or negative integers.

- 1. you have \$5 _____
- 2. you owe \$6 _____
- 3. the temperature goes up 15 degrees _____
- 4. the temperature drops 4 degrees _____

Directions: For each addition sentences, show the addition sentence on the number line, and then add the numbers.

17 + 6	2. 5 + (-8)
-10 10	-10 10 10
34+-4	42 + 9
-10 10	<mark>-10 10 10 10 10 10 10 10 10 10 10 10 10 1</mark>
5. 1+5	61 + (-6)
-10	-10
74 + 11	8. 8 + -10
-10 10	<mark>≪ </mark>
9. 7+-4	10. –8 + 15
-10 10	<mark>≪ </mark>

Date:_____ Integers

Day 1 Level B

Using a number line helps you to visualize what is happening when adding integers.

Use the	Use the number line below to show $6 + (-6)$. The sum $6 + (-6) = $									
< -2	-1	0	1	2	3	4	5	6	7	8
Use the	numbe	r line bel	ow to s	how 11	+ (-8).	The sun	n 11 + (·	-8) = _		
∢ 2	3	4	5	6	7	8	9	10	11	- → 12
Use the	numbe	r line bel	ow to s	how -4	4 + (-7).	. The su	m −4 +	(7) =		
<	-11	-10	-9	-8	-7	-6	-5	- <u>4</u>	-3	→
Use the	numbe	r line bel	ow to s	how -4	4 + 7. Tł	ne sum	-4 + 7	=		
←	-5	-4	-3	-2	-1	0	1	2	3	↓ → 4
Jason's 5 yards.	football What n	team los umber re	st 6 yard epresen	ds from its a los	their sta s of 6 yaı	rting po rds? a lo	osition a oss of 5 y	nd then ards?	lost an	other
Use a n	umber li	ne to fin	d the te	eam's to	tal loss.					
<	-10	-8	-6	-4	-2	0	2	4	6	 → 8
On the next play, the team gains 12 yards. Will the team be at their original starting position? Explain.										
A weather forecaster says the temperature will be about -5° C "give or take" 10 degrees. What is the greatest possible temperature?										
	5									

What is the least possible temperature? _____

Compare: Show 7 + (-3) on the number line below.



Explain why your number lines end on the same number.

Explain: Chase drew the number line below to show -4 + (-3). Is his model accurate? If not, tell what is wrong with his model.



Analyze: On the number line below, the numbers x and y are the same distance from 0. What is x + y? Explain how you found your answer.



Date:	
Integers	

Day 1 Level C

Finding Sums of Integers

1. $-7 + 6 =$ 2. $5 + -8 =$ 3. $-4 + -4 =$ 4. $-2 + 9 =$ 5. $1 + 5 =$ 6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	←	8 -7 -6 -5 -	4 -3 -2	2 -1	0	1	2	3	4	5	6	7	↓ → 8
2. $5 + -8 =$ 3. $-4 + -4 =$ 4. $-2 + 9 =$ 5. $1 + 5 =$ 6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	1.	-7 + 6 =											
3. $-4 + -4 =$ 4. $-2 + 9 =$ 5. $1 + 5 =$ 6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	2.	5 + -8 =											
4. $-2 + 9 =$ 5. $1 + 5 =$ 6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	3.	-4 + -4 =											
5. $1 + 5 =$ 6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	4.	-2 + 9 =											
6. $-1 + -6 =$ 7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	5.	1 + 5 =											
7. $-4 + 11 =$ 8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	6.	-1 + -6 =											
8. $8 + -10 =$ 9. $7 + -4 =$ 10. $-8 + 15 =$	7.	-4 + 11 =											
9. 7 + -4 = 108 + 15 =	8.	8 + -10 =											
108 + 15 =	9.	7 + -4 =											
	10.	-8 + 15 =		\ir ∖ir							1		W

Challenge:

1. -5 + -9 =2. 12 + -15 =3. -10 + -4 =4. 6 + 9 =5. -14 + 20 =

Solve the problem. Use what you learned from the model.

You are designing a hike that starts at the top of a canyon, above sea level. You plan to stop at three locations:

- · a scenic landmark, which is at sea level
- · a famous boulder, which is below sea level
- · the bottom of the canyon, which is 600 feet below sea level

Design the hike. Choose the location of each stop. Make a table that shows each location, the change in elevation from the previous location, and the elevation of each location relative to sea level. Show how you found the elevation of each location using integer addition. Graph your locations on a number line. Describe your hike, including the total change in elevation from the start of the hike to the bottom of the canyon.

Show your work. Use integers, tables, models, equations, and words to explain your answer.

Did you ...

- use integers?
- use a table and a number line?
- use an equation to model?
- use words to explain?
- · answer the question?

Questions	Answers
OPEN-ENDED Write a negative integer whose absolute value is greater than 3.	
REASONING Determine whether $n \ge 0$ or $n \le 0$.	
n+ -n =2n	
REASONING Determine whether $n \ge 0$ or $n \le 0$.	
$n+\left -n\right =0$	
41. CORAL REEF The depths of two scuba divers exploring a living coral reef are shown.	a)
a. Write an integer for the position of each diver relative to see level	
b. Which integer in part (a) is greater?	
c. Which integer in part (a) has the greater absolute value? Compare this absolute value with the depth of that diver.	b) is greater because
	c) Show your work below.
	has a greater absolute
	value because
• VOLCANOES The <i>summit elevation</i> of a volcano is the elevation of the top of the volcano relative to sea level. The summit elevation of the volcano Kilauea in Hawaii is 1277 meters. The summit elevation of the underwater volcano Loihi in the Pacific Ocean is -969 meters. Which summit is closer to sea level?	
SAVINGS You deposit \$50 in your savings account. One week later, you withdraw \$20. Write each amount as an integer.	

Name: _____ Ms. Napolitano Date:____ Integers

Day 1 Exit Ticket

1. Corazon used the number line model shown below to help her write a true number sentence.



Which of the following could be Corazon's number sentence?

A. -4 + 2 = 6
B. -4 + 6 = 2
C. 2 + 6 = -4
D. 2 + -4 = 6

Use the number line below for questions 2 and 3.

2. -6+10

3. 5+(-9)

Name:_____

Ms. Napolitano

Homework Day 1

Find the absolute value.

- 1. |-1| 2. |-14|
- 3. 0 4. 6

Complete the statement using <, >, or =.

- 5. 6 __ |-2| 6. -7 __ |-8|
- **7**. |-9| __ 5 **8**. |-2| __ 2

Order the values from least to greatest.

9. 4, |7|, -1, |-3|, -4 10. |2|, -3, |-5|, -1, 6

 You download 12 new songs to your MP3 player. Then you delete 5 old songs. Write each amount as an integer.

Date:_____

Integers

Use an integer strategy to find each answer.

(-2) + (+8) =	(+9) + (+7) =	(+7) + (-1) =
(+3) + (+1) =	(+7) + (+5) =	(-5) + (+9) =
(+2) + (-5) =	(-1) + (+3) =	(+8) + (+4) =
(-7) + (-2) =	(-6) + (-7) =	(+7) + (+8) =
(-4) + (+3) =	(-2) + (-6) =	(+9) + (-4) =
(+7) + (+3) =	(-5) + (-9) =	(-5) + (-6) =
(-9) + (-4) =	(-5) + (+4) =	(-3) + (-9) =
(-7) + (+1) =	(-1) + (-8) =	(-7) + (-4) =
(-1) + (+4) =	(+7) + (-4) =	(-6) + (+9) =

Date:	

Ms. Napolitano

Integers

Group Work Day 1_Level A

Directions: Determine the sum of each numerical expression by using the provided

number line. Write your answers in the provided space below.

Numerical	Determine your answer using the number line below.	Write your final
Expressions		answer below.
6 + 4	≪ 	
-6 + 4	< 	
-6 + (-4)	-10	
4 + (-6)	-10	
-4 + (-6)	-10	
4 + 6	-10	

2) Which expressions have the value of -2?

_____ and _____

3) Which expressions have the value of 10?

_____ and _____

4) Which expressions have the value of -10?

_____ and _____

Ms. Napolitano

Integers

Group Work Day 1_Level B

<u>1</u>) **<u>Directions</u>**: Determine the sum of each numerical expression by using the provided number line. Write your answers in the provided space below.

<u>Numerical</u> Expressions	Determine your answer using the number line below.	Write your final answer below.
6 + 4	-10 10	
-6 + 4	-10 10	
-6 + (-4)	-10 10	
4 + (-6)	-10	
-4 + (-6)	-10	
4 + 6	<	

- 2) Determine the sum of the following examples below.
 - a) -12 + 15 = _____
 - b) -25 + 36 = _____
 - c) -18 + 18 = _____
 - d) 67 + (-32) = _____
 - e) 47 + (-19) = _____
 - f) -23 + (-17) = _____
 - g) 11 + (-11) = _____

Ms. Napolitano

Date:_____

Integers

Group Work Day 1_Level C

1) Directions: Determine the sum of each numerical expression by using the provided number line. Write your answers in the provided space below. Then create a real world scenario that demonstrates the provided expression. The first real world scenario is completed for you.

Numerical Expressions	Determine your answer using the number line below.	<u>Write your</u> <u>final answer</u>	<u>Real World Scenarios</u>
-6 + 4	< 	below.	Example: Ms. Napolitano asked her mother for \$6 to get a subway sandwich. On Tuesday Ms. Napolitano gave her mother \$4 back. How much money does Ms. Napolitano owe her mother?
-7 + 8	< 		
-9 + (-1)	-10 10		
3 + (-10)	-10		

h) Determine the sum of the following examples below. Then create a real world scenario for each example.

Determine the sum.	Create the real world scenario.
-12 + 15	
25 + 36	
-2.5 ± 50	
-18 + 18	
67 + (-32)	
47 + (10)	
47 + (-19)	
-23 + (-17)	
11 + (-11)	