Integ	ers and the Number Line Homework Name
1. W 1	rite an integer to represent each of the following situations:
a)	A company loses \$345,000 in 2011
b)	You earned \$25 for dog sitting.
c)	Jacob owes his dad \$5
	What does zero mean in this situation?
ď	The temperature of the sun's surface is about 5,600 °C.
e)	The temperature outside is 4 degrees below 0.
f)	Jessica withdrew \$25 from her bank account.
	What does zero mean in this situation?

2. Scientists are studying temperatures and weather patterns in the Northern Hemisphere. They recorded temperatures (in degrees Celsius) in the table below. Represent each reported temperature using an integer.

Temperatures as Reported	8 below zero	12	-4	13 below zero	0	2 above zero	6 below zero	-5
Temperature (°C)								

Order the temperatures from <u>least to greatest</u>.

3. Yesterday's 7 A.M. temperature for four towns in ski country are shown in the table.

a) Which town was the coldest?
a) Which town was the warmest?
c) Which town had a temperature closest to 0?

Ski Country Temperatures						
Town	Temperatures (°F)					
Icy Falls	-8					
Snow Mountain	5					
Winterville	-7					
Cold Valley	-6					

d) How much colder was the coldest town than the warmest town?

4. \	Which situation can the integer –10 re	present?
	O A. spending 10 dollars	O C. gaining 10 yards
(O B. walking up 10 stairs	O D. earning 10 dollars
5.	Error Analysis Your friend incorrectly sa opposite integers. A A -10 -3 What is the opposite of the integer in the intege	
	b) What is the opposite of the integer i	represented by point B?
	c) Why is your friend incorrect?	
	O A. The distance from 0 to point A point B.	is greater than the distance from 0 to
	O B. The distance from 0 to point A point B.	is less than the distance from 0 to
	O C. Points A and B are not on opp	osite sides of 0.
	O D. Points A and B are not the san	ne point.
6.	Open-Ended Which situations(s) could lapply.	pe represented by -104? Check all that
	☐ A. skiing 104 ft down a mountain	
	☐ B. a bird flying 104 ft above the gro	ound
	☐ C. spending \$104 on vacation	
	☐ D. earning \$104 at your summer job	
	Reasoning Two people are scuba diving The other is 44 ft below the surface.	. One diver is 36 ft below the surface.
	a) What integers represent where the	divers are with respect to the surface?
	b) Which diver is deeper?	

Integers	bne	the	Number	Line	Homework
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Name	Key	<i></i>	

- 1. Write an integer to represent each of the following situations:

 - b) You earned \$25 for dog sitting. + 25
 - c) Jacob owes his dad \$5.

What does zero mean in this situation? Before Jacob borrowed \$

- d) The temperature of the sun's surface is about 5,600 °C. + 5,600
- e) The temperature outside is 4 degrees below 0.
- f) Jessica withdrew \$25 from her bank account. 25

What does zero mean in this situation? Bank account when amount befor withdrawl

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	Temperature (°C)	- 8	12	-4	-13	٥	2	-6	-5

Order the temperatures from least to greatest.

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Icy Fols

a) Which town was the warmest?

Snow Mountain

c) Which town had a temperature closest to 0?

Snow Mountain

Ski Country Temperatures						
Town	Temperatures (°F)					
Icy Falls	-8					
Snow Mountain	5					
Winterville	-7					
Cold Valley	-6					

d) How much colder was the coldest town than the warmest town?

13°

