Unit: Number System Student Handout 1

Name		
Date	Pd	

INTEGERS ON THE NUMBER LINE

INTEGEDS

• The set of whole numbers and their _____ are called integers.

• Examples: _____

NUMBED LINE

Integers can be plotted on a number line where the positive values are located to the _____ of zero and the negative values are located to the _____ of zero.

Use the open number line below to determine the location of each point. Label the number line and your plotted points.

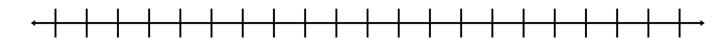
A: -8

B: 5

C: -2

D: 0

E: 9

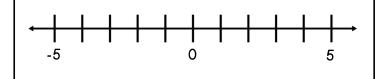


a. Which point in the set above has the largest value? Justify your thinking.

b. Which point in the set above has the smallest value? Justify your thinking.

Use your understanding of integers to answer the questions below.

1. Georgie is asked to plot the number -3 on the number line below. Where should Georgie plot the number?



2. The following transactions are shown on a bank statement. List the transactions from least to greatest. Use a number line to help.

\$12, -\$5, \$8, \$3, -\$11

Write the symbol and an example for each of the following:

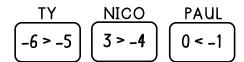
GREATER THAN	LESS THAN	FQUAL TO
:	•	:
:		:
:		:
:		:
:		:
	`	٠

Use your understanding of comparing integers to answer the questions below.

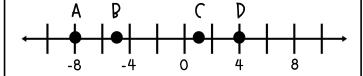
- 3. Use the symbols <, >, or = to make each statement true for questions a-d.
 - a. -19 ____20
 - b. 8 _____-8
 - c. 0 _____-7
 - d. -13 ____-12

4. Three students compared integers.

Determine which student completed the task correctly.



5. Beatrice places four different points on a number line. What value best represents point B?



6. The table below represents the number of yards gained in six different plays. List the values in order from greatest to least.

PLAY	1	2	3	4	5	6
YARDS	-8	2	6	14	-5	_q

Brainstorm real-world terms and phrases that indicate a positive or negative integer.

EQUAL	POSITI∨E			
	EQUAL			

7. Several clues are given to describe various integers. Write an integer that best represents each clue.

A football player caught a 57-yard pass

Carbon has 6 protons.

The temperature dropped 15° overnight.

Las Vegas, NV has an average temperature of 101° above zero. Your account is credited \$14.00.

A bank account is overdrawn \$27.00.

A submarine travels at 550 feet below sea level.

A quarterback is sacked for a loss of 5 yards.

Summarize today's lesson: