

1.6  
Integers and Absolute Value

# NOTES

Name: \_\_\_\_\_

Integers:

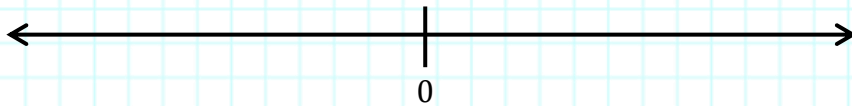
Opposites:

Absolute Value:

For each pair of integers:

- Graph each integer on the number line.
- Use the integers to write two inequalities, one using the  $>$  symbol, and one using the  $<$  symbol.
- Write the inequalities in words.

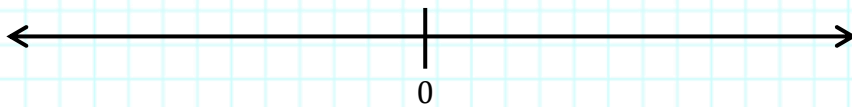
1) -2 and 6



\_\_\_  $>$  \_\_\_ written:

\_\_\_  $<$  \_\_\_ written:

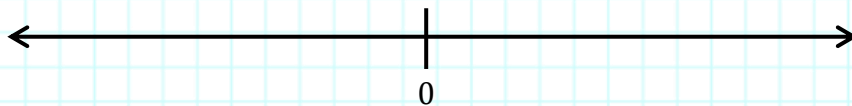
2) 5 and -3



\_\_\_  $>$  \_\_\_ written:

\_\_\_  $<$  \_\_\_ written:

3) -6 and -2



\_\_\_  $>$  \_\_\_ written:

\_\_\_  $<$  \_\_\_ written:

Two students, Eli and Mallory, answered the following question:

What is correct order for these integers? 0, -3, 11, -55, -6, 12, -18, -4, and 6

They each had a different answer.

Eli's answer: -55, -18, -6, -4, -3, 0, 6, 11, 12

Mallory's answer: 12, 11, 6, 0, -3, -4, -6, -18, -55

With whom do you agree? Why?

Which two numbers have an absolute value of 7?

Which number in each pair is farther away from zero?

4, -5

2, 5

-1, -3

Find each absolute value.

$|10|$

$|-11|$

$|-3|$

Compare using  $<$ ,  $=$ , or  $>$

$0 \square -2$

$-6 \square -3$

$-4 \square -5$

$|-3| \square 2$