

Do Now

Please place your homework in front of you and work silently on this Do Now.
Thank you!

Mystery Number

I am three times as far away from the number 5 as I am from the number 1. What number am I?

There are two mystery numbers that fit this clue. Can you find them both?



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NOTES

Integers: The set of positive whole numbers, their opposites, and zero.

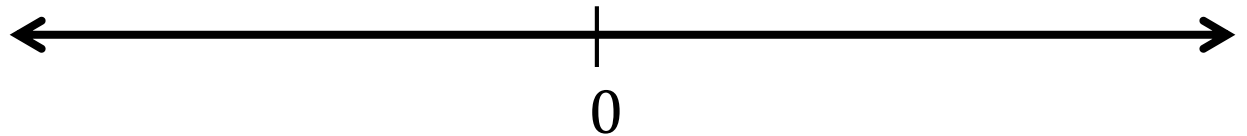
Opposites: Two numbers that are the same distance from zero on a number line, but in different directions.

Absolute Value: A number's distance from zero on a number line. You write "the absolute value" of -3 as $|-3|$

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



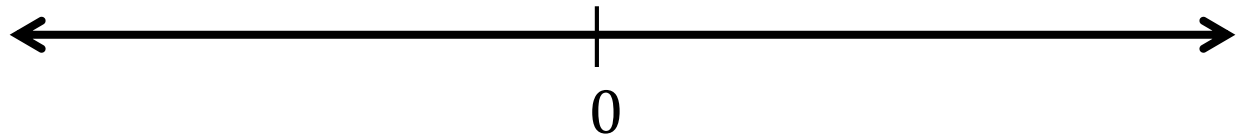
___ $>$ ___ written:

___ $<$ ___ written:

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.

2) 5 and -3



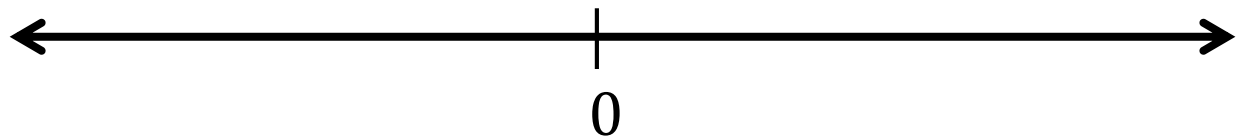
___ $>$ ___ written:

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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.

3) -6 and -2



___ $>$ ___ written:

___ $<$ ___ written:

Two students, George and Melissa, 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.

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

Melissa'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 $>$

$$0 \square -2$$

$$-6 \square -3$$

$$-4 \square -5$$

$$|-3| \square 2$$