Objective:

7.1.02 Develop fluency in addition, subtraction, multiplication, and division or rational numbers.

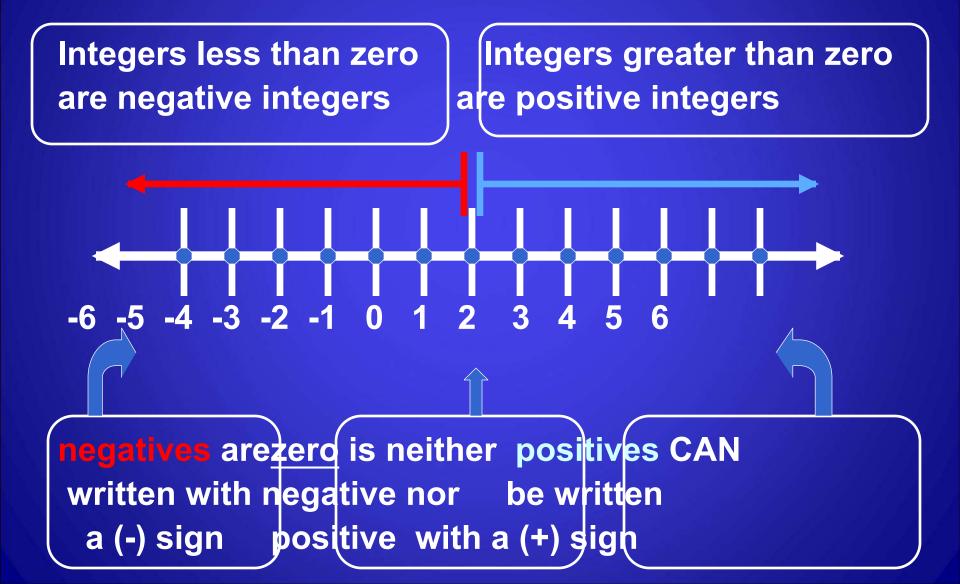
Essential Question:

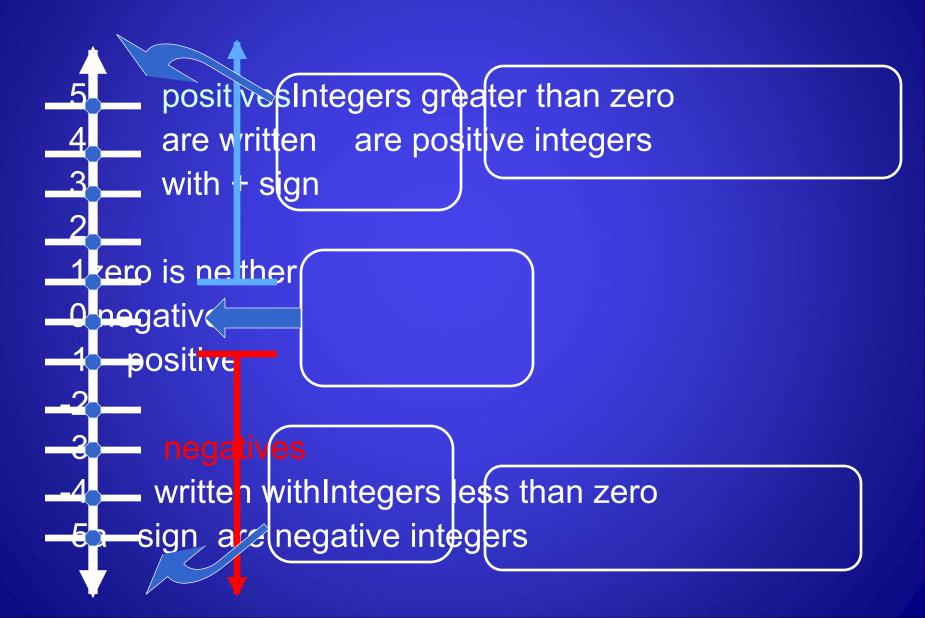
How do I identify, compare, and order integers?

Vocabulary:

- Integer
- Opposites
- Number Line
- Absolute Value
- Rational Number

WHERE DO WE SEE INTEGERS IN OUR DAILY LIVES

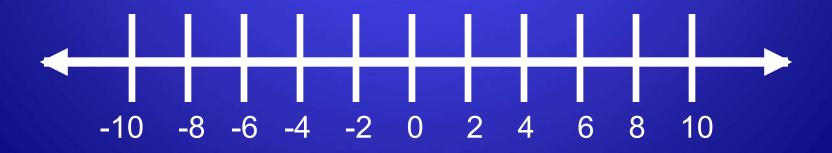




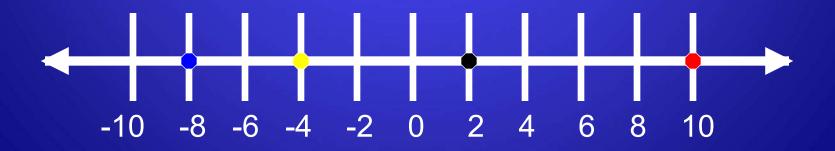
Writing Integers in Real-Life Situations Write an integer to describe each situation Example 1: an increase of 6 inches **Example 2:** scored 10 fewer points **Example 3:** a loss of 7 pounds **Example 4:** earned 5 dollars interest **Example 5:** a temperature of 9 degrees below zero

Writing Integers in Real-Life Situations Write an integer to describe each situation **Example 1:** an increase of 6 inches \rightarrow + 6 **Example 2:** scored 10 fewer points \rightarrow - 10 **Example 3:** a loss of 7 pounds \rightarrow - 7 **Example 4:** earned 5 dollars interest \rightarrow + 5 Example 5: a temperature of 9 degrees below zero \rightarrow - 9

Graphing integers on a Number Line Graph each integer on the number line **Example 1:** Graph - 4 on the number line **Example 2:** Graph - 8 on the number line Example 3: Graph + 10 on the number line **Example 4:** Graph + 2 on the number line



Graphing integers on a Number Line Graph each integer on the number line Example 1: Graph - 4 on the number line Example 2: Graph - 8 on the number line **Example 3:** Graph + 10 on the number line Example 4: Graph + 2 on the number line



What is absolute value?

The distance of some number from zero on the number line

What does absolute value look like?

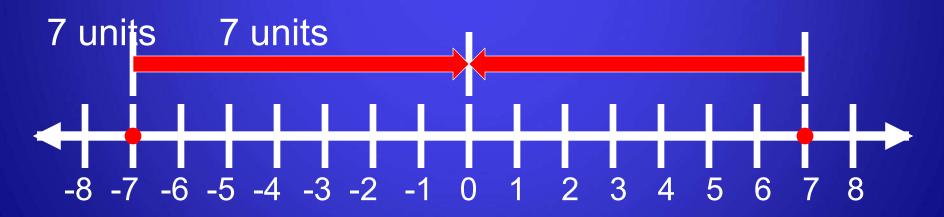
the absolute value of 7 | 7 | = 7

the absolute value of -7 | -7 |

What is absolute value?

The distance of some number from zero on the number line

What does absolute value look like?



Absolute Value Evaluate the expression. Example 1: 3 **Example 2:** - 68 **Example 3:** 6 + - 9 Example 4: - 8 - - 9

Absolute Value Evaluate the expression. **Example 1:** 3 = 3 **Example 2:** | - 68 | = 68 **Example 3:** | 6 | + | - 9 | = 15 **Example 4:** - 8 - - 9 = -1

Extension The number shows the amounts of money Erica, Jerry, Bob, and Ray have in their wallets or owe one of their parents.

Who has the most money? Who has the least money? Who owes four dollars?



Extension The number shows the amounts of money Erica, Jerry, Bob, and Ray have in their wallets or owe one of their parents.

Who has the most money? Ray Who has the least money? Rob Who owes four dollars? Jerry

10 Ray 6 Δ **Erica** Jerry 6 8 Bob

Comparing Integers Replace the \Box with <, >, or = to make the sentence true. **Example 1: - 9** – 8 **Example 2:** 83 🗆 84 **Example 3:** 5 – - 5 Example 4: - 6 🗆 - 4 Example 5: - 7 - - 7

Comparing Integers Replace the \Box with <, >, or = to make the sentence true. **Example 1:** - 9 \square 8 \rightarrow - 9 < 8 **Example 2:** 83 □ 84 → 83 < 84 **Example 3:** $5 \square - 5 \longrightarrow 5 > - 5$ **Example 4:** - 6 □ - 4 → - 6 < - 4 **Example 5:** $-7 \square -7 \rightarrow -7 = -7$

Ordering Integers

Order each set of integers from least to greatest.

Example 1: - 162, - 10, - 81, 59

Example 2: 9, - 8, 4, - 9 Example 3: 2, 6, - 2, 0 Example 4: 7, 5, - 1, - 5

Ordering Integers

Order each set of integers from least to greatest.

Example 1: - 162, - 10, - 81, 59 \rightarrow

- 162, - 81, - 10, 59

Example 2: 9, - 8, 4, - 9 \rightarrow - 9, - 8, 4, 9 **Example 3**: 2, 6, - 2, 0 \rightarrow - 2, 0, 2, 6 **Example 4**: 7, 5, - 1, - 5 \rightarrow - 5, - 1, 5, 7

Extension Evaluate 6 + | n | if b = - 16.

Extension Evaluate 6 + |n| if b = -16.

6 + | n | = 6 + | - 16 | = 6 + 16 = 22

Homework

Core 01 and 03 – p.36 #1 – 48, all

Core 02 – p.59-60 #20 – 50, all