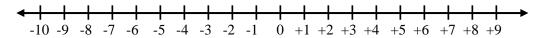
Reteaching Page

9.2 - Comparing and Ordering Integers

There are 2 ways to compare and order integers. You can use a number line to see the values or you can apply an absolute value rule.

Use a number line:

- 1. Plot the integers that you wish to compare or order.
- 2. The farthest **left** is the number with the **least** value!



Use <. > or = to compare the values.

Put the data set in order from least to greatest.

Use the absolute value rule.

- 1. Positive numbers are greater when the absolute value is larger.
- 2. Negative numbers are less when the absolute value is larger!
 - a. -10 is less than -5 **and** the |-10| > |-5|
 - b. |-10| > |-5| since negative numbers are opposites, switch the sign!
 - c. -10 < -5

 $48 \longrightarrow -15 \rightarrow$ Positives are always greater then negatives. $48 \longrightarrow -15$

-25
$$_$$
 -18 \rightarrow |-25| $_$ |-18| \rightarrow switch the sign -25 $_$ -18

$$-37$$
 ____ $-42 \rightarrow |-37|$ ____ $|-42| \rightarrow$ switch the sign -37 ____ -42

-18
$$_$$
 6 \rightarrow Positives are always greater then negatives. -18 $_$ 6

To order numbers using the absolute value rule – separate the negatives and positives!

$$-17. -10. +5. -24 \rightarrow +5$$
 $-17. -10. -24$

Now order each part separately. +5, -10, -17, -24

Notice that the negative side's absolute values are increasing as the true values decrease!