

Reteaching Page

9.4 – Adding Integers

To add integers use a number line or use the rule.

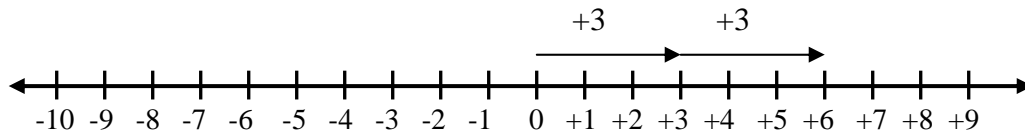
Using a number line.

Positives move to the **right**.

Negatives move to the **left**.

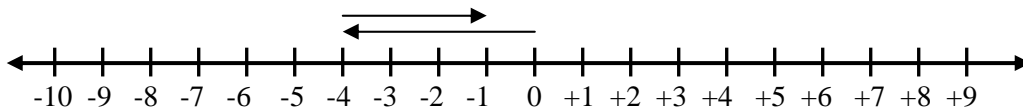
$$3 + 3 = 6$$

Positive 3 is three moves to the right. Plus three more moves to the right is 6.



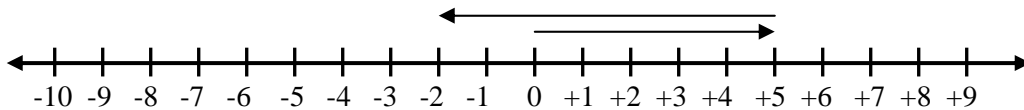
$$-4 + 3 = -1$$

Negative 4 is four moves to the left. Plus three moves to the right is -1.



$$5 + (-7) = -2$$

Positive 5 is five moves to the right. Plus seven moves to the left is -2.



Use the rule.

Same Signs – When the signs are the same **add** the absolute values and assign the sign.

$$5 + 5 = 10 \text{ (the signs are positive so we assign positive)}$$

$$-7 + (-7) = -14$$

$$7 + 7 = 14 \text{ (the signs are negative so we assign negative)}$$

Different Signs – When the signs are the different **subtract** the absolute values and assign the sign of the greatest absolute value.

$$5 + (-8) = -3$$

$$8 - 5 = 3 \text{ (-8 has the greatest absolute value so we assign negative)}$$

$$-7 + 9 = 2$$

$$9 - 7 = 2 \text{ (+9 has the greatest absolute value so we assign positive)}$$