Name _____

Reteaching
10-4

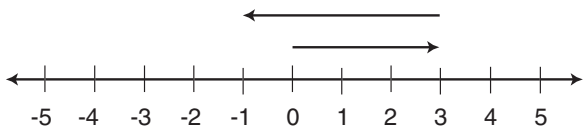
Adding Integers

You can use a number line or rules to add integers. On a number line, start at 0. Move right to add a positive number. Move left to add a negative number.

Add two integers with different signs.

Find $3 + (-4)$.

Start at 0. Move 3 units to the right. Then move 4 units to the left.



$3 + (-4) = -1$

Find the absolute value for each addend. $|-4| = 4$ and $|3| = 3$

Subtract the smaller absolute value from the greater: $4 - 3 = 1$

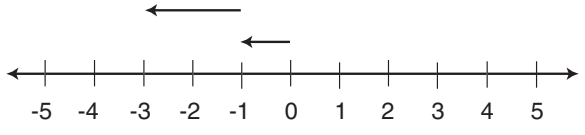
Give the difference the same sign as the addend with the greater absolute value. Because $+4$ has the greater absolute value ($4 > 3$), this difference receives a negative sign.

$3 + (-4) = -1$

Add two integers with the same sign.

Find $-1 + (-2)$.

Start at 0. Move 1 unit to the left. Then move 2 more units to the left.



$-1 + (-2) = -3$

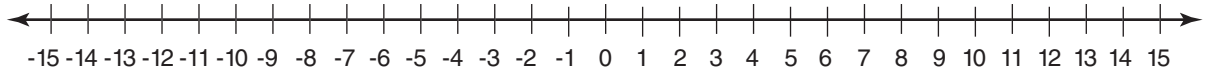
Find the absolute value for each addend. $|-1| = 1$ and $|-2| = 2$

Add the absolute values. $1 + 2 = 3$

Give the sum the same sign as the addends.

$-1 + (-2) = -3$

Find each sum. Use the number line or rules.



1. Find $-5 + 7$.
Move *left* _____ spaces. Move *right* _____ spaces. So, $-5 + 7 =$ _____

2. $8 + 4 =$ _____ **3.** $3 + (-5) =$ _____ **4.** $-7 + (-8) =$ _____

5. $-4 + (-4) =$ _____ **6.** $-5 + 3 =$ _____ **7.** $7 + (-3) =$ _____

8. $10 + (-1) =$ _____ **9.** $-8 + 6 =$ _____ **10.** $2 + (-3) =$ _____

11. $11 + 3 =$ _____ **12.** $-9 + 6 =$ _____ **13.** $-2 + 12 =$ _____

14. Algebra The rule is Add –5. The input is 10. What is the output? _____