

How far is +4 from zero? _____

How far is -4 from zero? _____

How far is -6 from zero? _____

How far is +3 from zero? _____

Absolute Value: Absolute Value is how far a number is from zero on a number line.

The absolute value of x is written as: $|x|$

It means how far is x from zero.

$$|-3| = 3 \quad | +3 | = 3$$

$$|-6| =$$

$$|+25| =$$

$$|0| =$$

11 $|-10| =$ _____ $|5| =$ _____ $|-4| =$ _____

III. Adding Integers

$$-5 + 5 =$$

$$+10 + -10 =$$

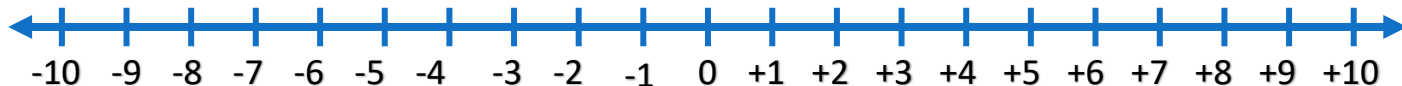
Additive Inverses: Two numbers that are opposites are also called additive inverses.

(We saw then when we discussed Addition and Subtraction are inverse operations.)

The sum of additive inverses is _____

$$+7 + -7 = \underline{\hspace{2cm}}$$

$$-2 + +2 = \underline{\hspace{2cm}}$$



Sam owes John four dollars. What is the result after he borrows two more dollars?

Jane earned \$20 for babysitting on Friday. How much does she have after she earns \$35 for babysitting on Saturday?

To add integers with the same signs:

Add the numbers

Keep the sign

$$-4 + -8 =$$

$$+5 + +1 =$$

$$-10 + -7 =$$

$$+3 + 2 =$$

$$-8 + -3 =$$

$$+4 + +9 =$$

$$-3 + -12 =$$

$$+8 + 12 =$$

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Nathaniel's mowing customer paid him \$15. The next day he bought a starting gear for \$7. How much does Nathaniel have?

Anna's Algebra textbook cost \$50. She gave the cashier \$40. What is the result of this transaction?

To add integers with different signs:

Find the difference

Sign of the larger number

$$-5 + +1 =$$

$$+3 + -2 =$$

$$+8 + -2 =$$

$$+7 + -9 =$$

$$-6 + +10 =$$

$$-3 + 6 =$$

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