

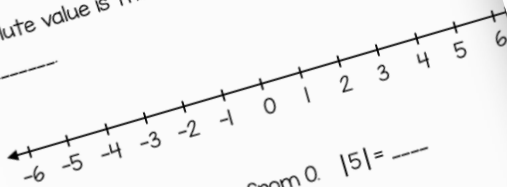
Absolute Value & Opposites Notes

Interactive Notebook

Absolute Value

The notation used for absolute notation is a pair of lines called bars around the number.

Absolute value is the _____ a number is from _____



5 is _____ spaces away from 0. $|5| = \underline{\hspace{1cm}}$

-5 is _____ spaces away from 0. $|-5| = \underline{\hspace{1cm}}$

Distance is always _____
value is always _____

Find each absolute value.

a) $|9|$

b) $|-3|$

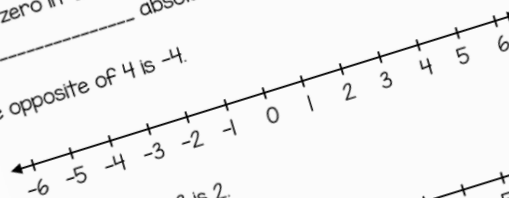
c) $|0|$

d) $|\frac{3}{4}|$

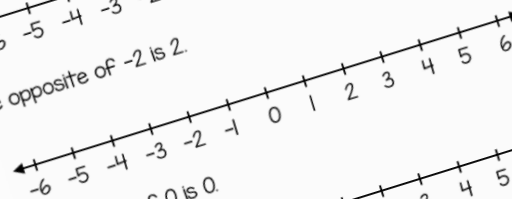
Opposites

A number and its opposite are the _____ distance from zero in _____ directions. Opposites have _____ absolute value.

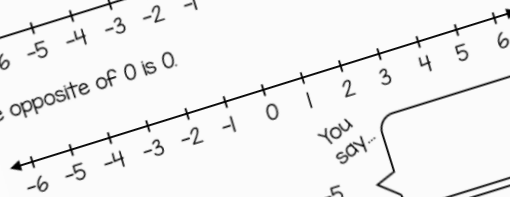
The opposite of 4 is -4.



The opposite of -2 is 2.



The opposite of 0 is 0.



Notation:

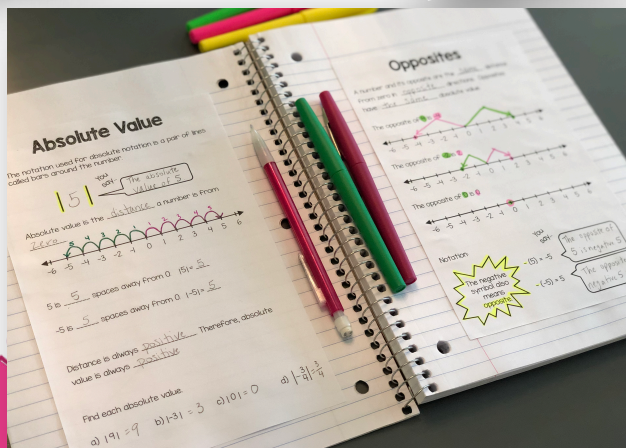
The negative symbol also means opposite.

$-(5) = -5$

$-(-5) = 5$

You say:

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6th Grade
Common
Core & TEKS
aligned

The
Mrs.
Garen

Standards:

Common Core:

6.NS.C.6.A

Recognize opposite signs of numbers as indicating locations on opposite sides of 0 on the number line; recognize that the opposite of the opposite of a number is the number itself, e.g., $-(-3) = 3$, and that 0 is its own opposite.

6.NS.C.7.C

Understand the absolute value of a rational number as its distance from 0 on the number line; interpret absolute value as magnitude for a positive or negative quantity in a real-world situation.

Texas Essential Knowledge and Skills:

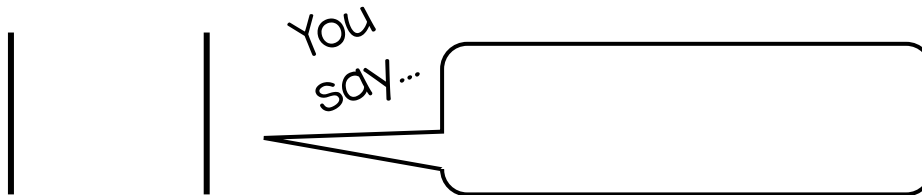
TEKS 6.2

Number and operations. The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:

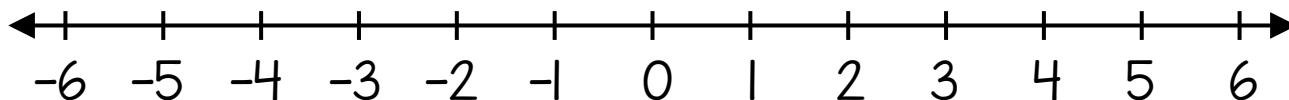
(B) identify a number, its opposite, and its absolute value

Absolute Value

The notation used for absolute notation is a pair of lines called bars around the number.



Absolute value is the _____ a number is from _____.



5 is _____ spaces away from 0. $|5| = \underline{\quad}$

-5 is _____ spaces away from 0. $|-5| = \underline{\quad}$

Distance is always _____. Therefore, absolute value is always _____.

Find each absolute value.

a) $|9|$

b) $|-3|$

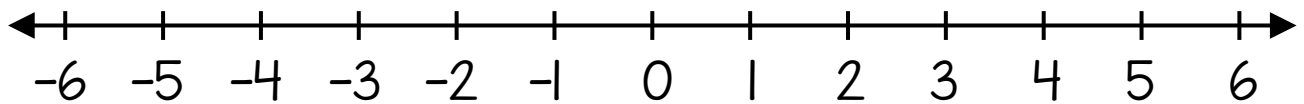
c) $|0|$

d) $\left|-\frac{3}{4}\right|$

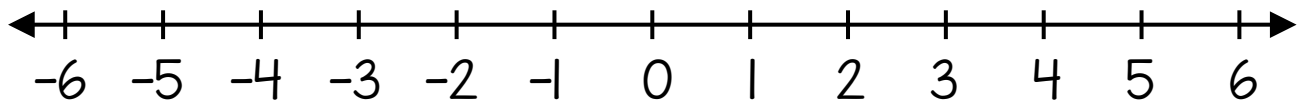
Opposites

A number and its opposite are the _____ distance from zero in _____ directions. Opposites have _____ absolute value.

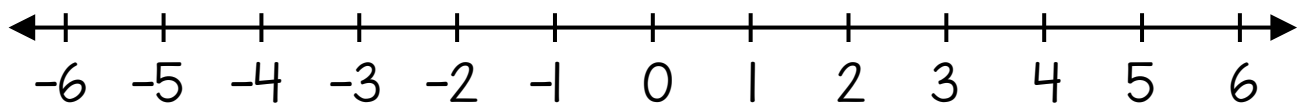
The opposite of 4 is -4.



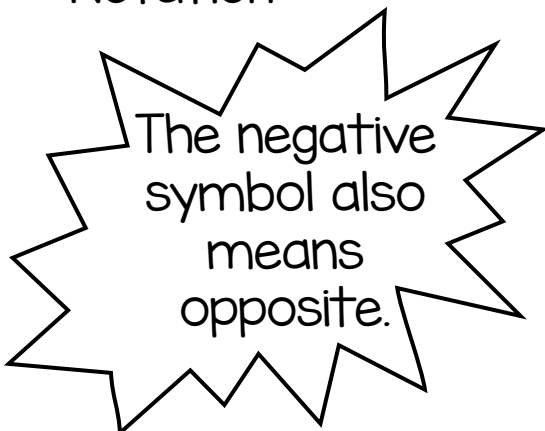
The opposite of -2 is 2.



The opposite of 0 is 0.



Notation:



You say...

$$-(5) = -5$$

$$-(-5) = 5$$

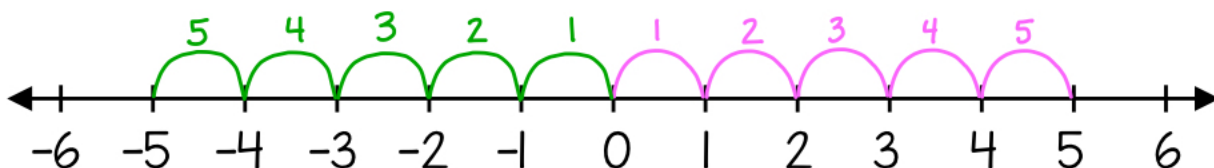
Absolute Value

The notation used for absolute notation is a pair of lines called bars around the number.

$$|5|$$

You say... The absolute value of 5.

Absolute value is the distance a number is from zero.



5 is 5 spaces away from 0. $|5| = \underline{5}$

-5 is 5 spaces away from 0. $|-5| = \underline{5}$

Distance is always positive. Therefore, absolute value is always positive.

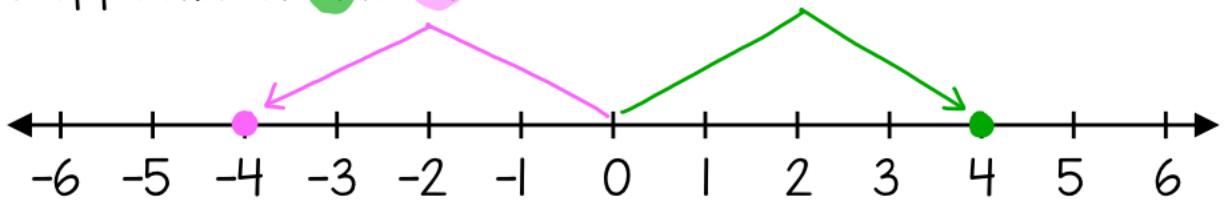
Find each absolute value.

a) $|9| = 9$ b) $|-3| = 3$ c) $|0| = 0$ d) $|\frac{-3}{4}| = \frac{3}{4}$

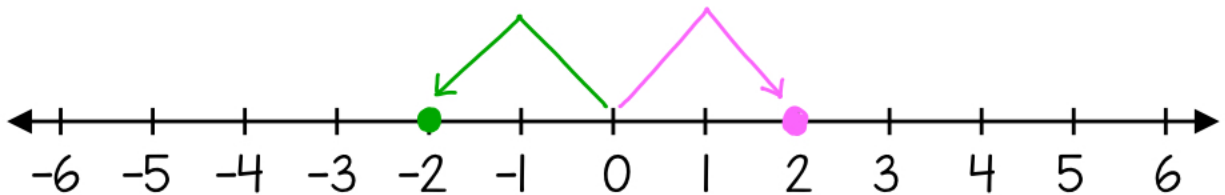
Opposites

A number and its opposite are the same distance from zero in opposite directions. Opposites have the same absolute value.

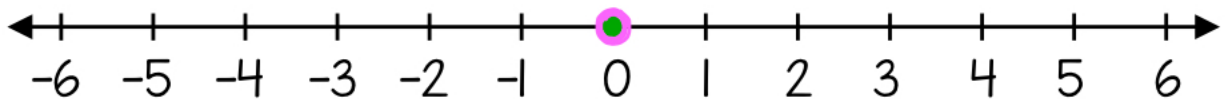
The opposite of 4 is -4.



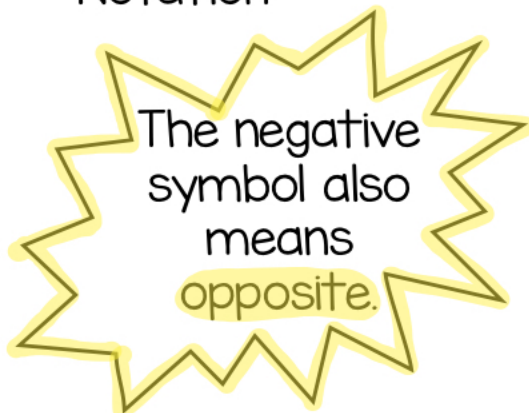
The opposite of -2 is 2.



The opposite of 0 is 0.



Notation:



You say...

$$-(5) = -5$$

The opposite of 5 is negative 5.

$$-(-5) = 5$$

The opposite of negative 5 is positive 5.

Teacher Tips

These notes are great for an interactive notebook. I copy these half size and have students glue or tape them in their notebook.

Thank You!

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