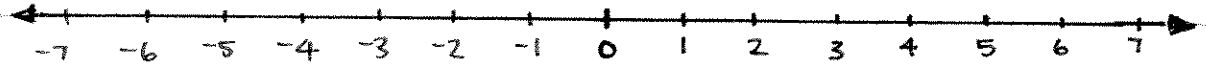
ABSOLUTE VALUE

Absolute value is a mathematical representation of _____.



The number 3 is 3 units away from zero, so $|3| =$ ____

NOTE: The vertical bars around the number 3 above is the mathematical symbol for absolute value.

The number -2 is 2 units away from zero, so $|-2| =$ ____

example 1: $|5-1|$

Since $|5-1|$ is the mathematical way of saying "the distance between 5 and 1 on the number line", the answer is _____.

example 2: $|-3-5|$

$|-3-5| =$ _____

The opposite of a number:

The sum of a number and its opposite is always ____.

↳ example 3:

Find the opposite of each number:

a) $-3 \rightarrow$ ____

b) $10 \rightarrow$ ____

c) $\frac{1}{2} \rightarrow$ ____

d) $-\frac{3}{4} \rightarrow$ ____

Note: The opposite of -3 is 3 which are BOTH three units away from ZERO on the number line.

ABSOLUTE VALUE Practice Problems

1. Evaluate:
   a) $|4|$
   b) $|-6|$
   c) $|10-7|$
   d) $|-4-1|$

2. Find the opposite of each number
   a) $|4$
   b) -7
   c) $-\frac{7}{8}$

3. What number is its own opposite?

4. What is the opposite of the absolute value of -2 ?

5. What is the absolute value of the opposite of -5 ?