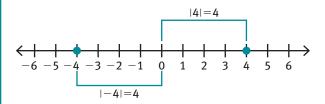
Absolute Value

The *absolute value* of a number is defined as the distance between the number and zero. Absolute value is indicated by vertical bars: | |. The expression | 6 | is read as *the absolute value of 6*.

EXAMPLE A

The number line shows the absolute values of 4 and -4.



The number line shows that |4| is the distance between 4 and 0 is 4. Thus, |4| = 4. The number line also shows that |-4| is the distance between -4 and 0 is 4. Thus, |-4| = 4.

The absolute value of a positive number or zero is the number itself. The absolute value of a negative number is its opposite. The absolute value of a number is positive or zero because absolute value represents a distance.

EXAMPLE B

Find the value of the expression |3 + 6|.

Step 1: Simplify the sum inside the absolute value.

|3 + 6| = |9|

Step 2: Find the absolute value.

|9| = 9 because 9 is a distance of nine units away from zero.

Solution: |3 + 6| = 9

PRACTICE

Find the value of each expression.

1. 14	2. -25
3. 6 + 11	4. 17 – 3
5. -8 4	6. -6 -8
7. 2 9	8. 7 -5

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