

Absolute Value:

Distance from zero on a number line.

Absolute value of a number gives a positive result because **DISTANCE IS ALWAYS A POSITIVE QUANTITY.**

1. $|-6| = 6$

2. $|13| = 13$

3. $5 + |-3 + 7| =$

$5 + |4|$
 $5 + 4 = 9$

4. $4 - |-2|$
 $4 - 2 = 2$

Absolute Value is a grouping symbol like parentheses. You must simplify inside before doing the absolute value.

Evaluate each expression for $E = -4$ $F = 6$ $G = -2$

1. $-G + |E| - |F|$

$+2 + |-4| - |6|$
 $2 + 4 - 6$
 $6 - 6 = 0$

2. $-3|G| + E^2$

$-3|-2| + (-4)^2$
 $-3 \cdot 2 + 16$
 $-6 + 16$
 10

3. $|FG| - |E+G|$

$|6 \cdot -2| - |-4 + -2|$
 $12 - 6 = 6$

4. $|E| - 5|F|$

$|-4| - 5|6|$
 $4 - 30 = -26$