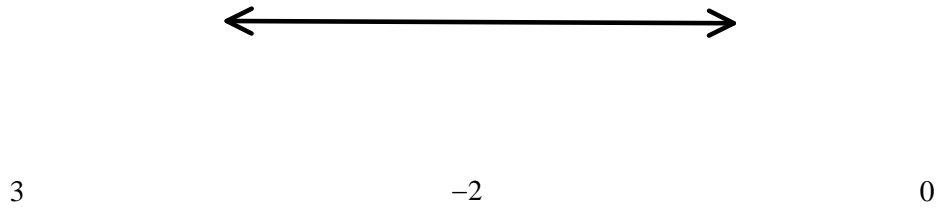


## Absolute Value

Opposite Numbers - two numbers that are on opposite sides of zero on a number line and that are the same distance from zero

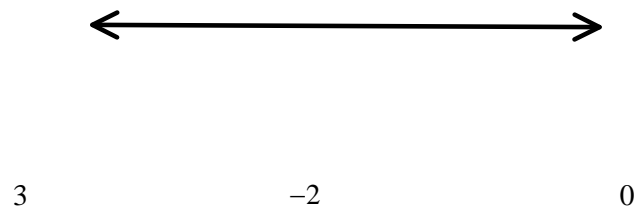


Absolute Value - the distance from zero on a number line

$$|x|$$

$$|5|$$

$$|-5|$$



1. Find the opposite of each number.

a) 6

b)  $-1\frac{1}{2}$

c) 0

d)  $-10$

e) 13.7

f)  $x$

2. Find the absolute value of each number.

a) 6

b)  $-1\frac{1}{2}$

c) 0

d)  $-10$

e)  $x$

f)  $-x$

3. Simplify each expression.

a)  $-|-10|$

b)  $|-4+3|$

c)  $-|-18+20|$

d)  $| -(-7) |$

e)  $-3|-6|$

f)  $|-8|+|8|$

g)  $|-10| - |-5|$

h)  $-(|-9| - |7|)$

i)  $|10| - |-6| - |-14|$

4. Evaluate each expression for  $x = -6$ .

a)  $-x$

b)  $3 - |x|$

c)  $|3 - x|$

d)  $|x + 2|$

e)  $x - |-x|$