

Ch 1 & 2: D5-Opposite Numbers,  
Absolute Value

# Ch 1 & 2

Day 5  
Opposite Numbers  
Absolute Value

## Opposite of a Number

- Two numbers that are the same distance from zero on number line
  - Ex: 2 and -2
- Ex: Find the opposite of each number
  - a) 6       $-6$
  - b) -3      $3$
  - c) 0       $0$

## Ex: Find the Absolute Value

- a)  $|3|$        $3$
- b)  $|-5|$       $5$
- c)  $|0|$        $0$
- d)  $-|-3|$      $-3$
- e)  $|2-3| = |-1| = 1$

## Use $<$ , $>$ , or $=$ to compare the values

- a)  $5 < 8$
- b)  $10 > -5$
- c)  $|-4| > |3|$        $4 > 3$
- d)  $-5 < |5|$        $-5 < 5$
- e)  $|-2| = |2|$        $2 = 2$
- f)  $0 < 3$

## Evaluate with your Partner $x = -1, y = -4, z = 2$

- $x+3y$
- $|2x-z|$
- $|xy|$
- $x+y-|x|$
- $xy^2$

## Evaluate with your Partner $x = -1, y = -4, z = 2$

- $x+3y$        $-1 + 3(-4) = -1 + -12 = -13$
- $|2x-z|$       $|2(-1) - 2| = |-2-2| = |-4| = 4$
- $|xy|$          $|-1(-4)| = |4| = 4$
- $x+y-|x|$     $-1 + -4 - |-1| = -5 - 1 = -6$
- $xy^2$         $-1(-4)^2 = -1(16) = -16$