

Lesson 6-1 : Absolute Value

SWBAT: Use integers, opposites and absolute value to represent real world situations.

Definitions:

- Opposites – _____.
- Integers - _____.

Integers (review):

- Use a _____ or draw symbols to help add/subtract
- When multiplying or dividing, look at the signs of the numbers. If they have the same sign the answer is _____. If the signs are different, the answer is _____.

Ex: $5 - 8$ $-13 - 4$ $7 + (-4)$ $6 - (-5)$ $(-3) - (-10)$

$4 \cdot (-2)$ $(-5) \cdot (-4)$ $(-18) \div 3$ $(-25) \div (-5)$

Absolute value:

- The distance from _____.
- The symbol for absolute value of a number _____.
- _____ numbers have the same absolute value
- Since absolute value is a distance, it is always _____.
You cannot travel in a negative distance

Ex:

$|5| = 5$ $|-5| = 5$ $|-12| =$ $|84| =$ $|-275.6| =$

$|19| =$ $|35| =$ $|-584| =$ $|1| =$ $|0| =$

a. $|-4| - |-7|$ b. $7 - |9| + |-2|$ c. $|-28| \div 4$

d. $-3 \cdot |-12|$ e. $-|2 \cdot (-4)|$ f. $-|(-3)^2|$