Adding Integers

Absolute Value and Opposites of Integers)

Objectives: I can find opposites and absolute values of integers and add integers.

absolute value

The distance of a number from zero; the positive value of a number.

Two parallel lines around a number or expression mean "the absolute value."

For example: -4 = 4

opposites

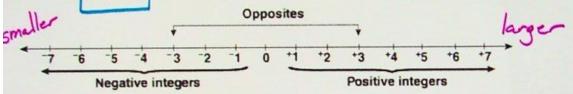
Two numbers that lie the same distance from 0 on the number line but in opposite directions.

For example: The opposite of 2 is -2

The opposite of -5 is 5.

A negative sign in front of a number or variable means "the opposite of."

Therefore, -(-9) = 9



Write an integer for each situation.

Lose \$7

2. 1,300 ft below sea level - 1300

3. 8°C below zero

5. 5 floors down

7. Profit of \$40

Compare. Use >, < or = to complete each statement.

3. -7 14

Notes about adding integers

e notes...

Signsthe Same positive egative + negative

Add, Keep the sign 5+6=11 -2+-7=-9

Signs are Different positive + negative negative + positive

Subtract Use the sign of the larger absolute value -5+8=3-6+2=-4 3+(-6)=-3 10+(-2)=8

ractice Applying Rules of Addition

ind each sum.

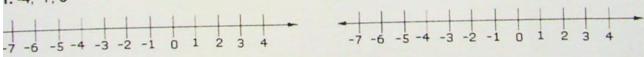
$$9 + (-12) = 3$$
 $2. -4 + 10 = 6$ $3. -1 + (-8) = 9$

$$-6 + (-11) = 17$$
 5. $-5 + 15 = 10$

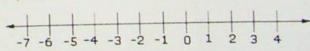
HOMEWORK

Graph each set of numbers on a number line. Then order the numbers from least to greatest. (On #3 and 4, you have to write your own numbers under the number lines.)

1. -4, -7, 3



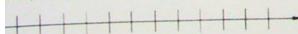
2.3, -3, -2

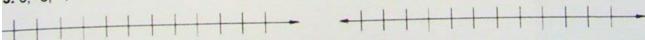


least to greatest: _____ least to greatest: _____

3. 0, -6, -4







east to greatest: _

least to greatest: _

Homework is continued on the next page.