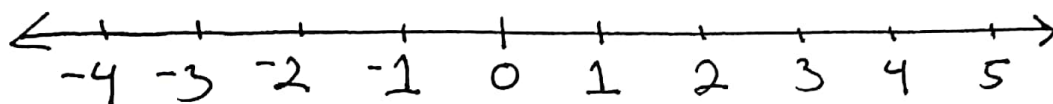


1/16/19

Objective: To add and subtract integers

Integers: A set of numbers that are positive and negative whole numbers.

← -    + →



### Adding integers

- same sign (the sign directly in front of the number, this can sometimes be the minus sign)

\* Rule: Add the numbers and answer takes the same sign.

Trick: Same sign, find the sum

examples: a.)  $+4 + 5 = +9$

b.)  $-4 + -5 = -9$

$-4 - 5 = -9$

- different sign

\* Rule: Subtract and keep the sign of the bigger number.

Trick: Different signs, find the difference

examples: a.)  $-4 + (+5) = 1$     b.)  $4 + (-5) = -1$

$-4 + 5 = 1$

$4 - 5 = -1$

## Subtracting Integers

(when there are two negatives side-by-side)

Rule: Keep - Change - Change (change two negatives that are side-by-side to a positive)

Keep - keep the sign of the 1<sup>st</sup> number the same

change - change the sign of the 2<sup>nd</sup> number

change - change the next sign.

$$\begin{aligned} \text{a.) } & 4 - (-4) \\ & 4 + (+4) = 8 \end{aligned}$$

$$\begin{aligned} \text{b.) } & -5 - (-4) \\ & -5 + (+4) \\ & -5 + 4 = -1 \end{aligned}$$