

- ① scientific calculator
- ② ruler
- ③ pencil(s)
- ④ graph paper
- ⑤ binder

Feb. 6, 2018

Warmup

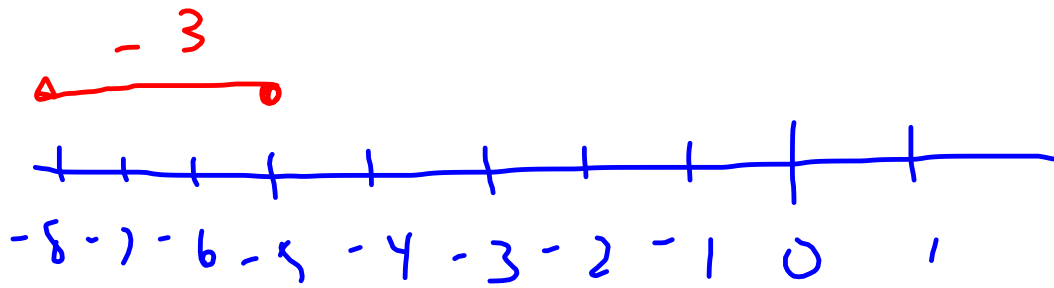
$$a) (-5) + (-3)$$

$$= \boxed{-8}$$

$$b) 2 - (-9)$$

$$= 2 + 9$$

$$= \boxed{11}$$



$$c) 3 - (-2) + (-5) - (-4)$$

$$= 3 + 2 - 5 + 4$$

$$= 5 - 5 + 4$$

$$= 0 + 4$$

$$= \boxed{4}$$

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Multiplying and Dividing  
Integers

Remember when you multiply  
by a negative the sign  
flips.

# Rules for Multiplying

$$+ \times + = +$$

$$\text{ex. } 3 \times 2 = 6$$

$$- \times + = -$$

$$\text{ex. } (-3) \times 2 = -6$$

$$+ \times - = -$$

$$\text{ex. } 3 \times (-2) = -6$$

$$- \times - = +$$

$$\text{ex. } (-3) \times (-2) = +6$$

Ex.

$$a) 4 \times (-3) = \boxed{-12}$$

$$b) (-3) \times (-5) = \boxed{+15}$$

$$c) (-2) \times (-4) \times (-2) =$$

$$= +8 \times (-2) = \boxed{-16}$$

$$d) 4 \times (-6) \times (-3)$$

$$= -24 \times (-3)$$

$$= \boxed{+72}$$

$$\begin{array}{r} 24 \\ 24 \\ 24 \\ \hline 72 \end{array} \begin{array}{r} \\ \\ \times 3 \\ \hline \end{array}$$

$$e) 3 \times (-4) \times (-4) \times (-3)$$

$$= (-12) \times (-4) \times (-3)$$

$$= (+48) \times (-3)$$

$$= \boxed{-144}$$

## Division

The same rules apply ..

$$f) \frac{-16}{-4} = \boxed{+4}$$

$$g) \frac{200}{-4} = \boxed{-50}$$

$$h) \frac{-100}{-25} = \boxed{+4}$$



$$i) \frac{(-2) \times (-3) \times (-5)}{-10}$$

$$= \frac{6 \times (-5)}{-10}$$

$$= \frac{-30}{-10}$$

$$= \boxed{+3}$$