

Feb. 7, 2018

Warmup

$$a) -2 + (-3) - (-4)$$

$$= -5 - (-4)$$

$$= -5 + 4$$

$$= \boxed{-1}$$

Multiplication Rules

+ × + = +

- × + = -

+ × - = -

- × - = +

$$b) (-2) \times (-3) \times (-4)$$

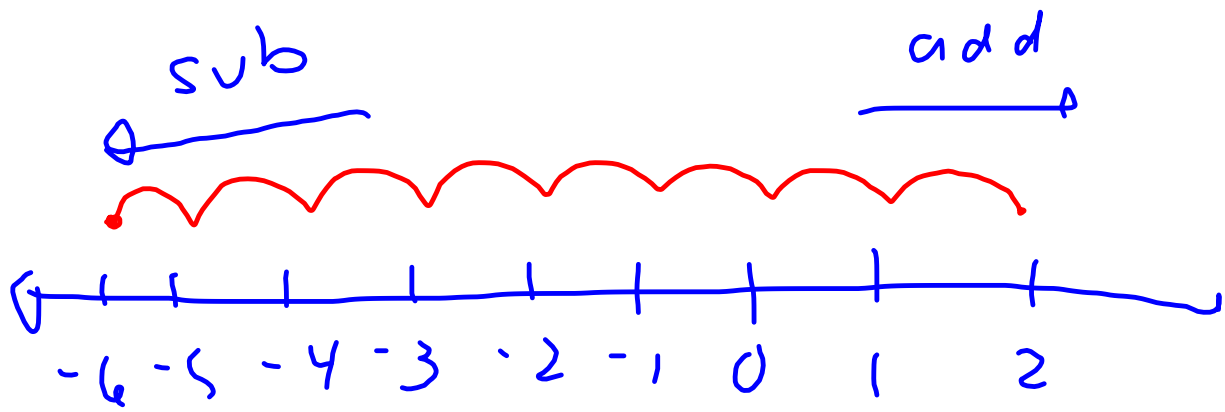
$$(+6) \times (-4)$$

$$= \boxed{-24}$$

$$c) \frac{15}{-3} \times (-2)$$

$$= -5 \times (-2)$$

$$= \boxed{+10}$$



$$2 - 8$$

$$= -6$$

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BEDMAS

This is for order of operations and is always used.

B rackets

E xponents

[D ivision

[M ultiplication

[A ddition

[S ubtraction

Ex:

a) $(-4)^2$ multiply
~~⊗~~ $= (-4)(-4)$
 $= \boxed{+16}$

b) $2 + 3 \times 4$
 $= 2 + 12$
 $= \boxed{14}$

$$c) 3 + \underbrace{2^2}_{4} \times 2$$

$$= 3 + \underbrace{4 \times 2}_{8}$$

$$= 3 + 8$$

$$\therefore \boxed{11}$$

$$d) \quad 3 \underline{(10 - 15)}$$

$$= 3(-5)$$

$$= \boxed{-15}$$

$$e) \quad (-2 + 3 - \underline{2 \times 8})^2$$

$$= (-2 + 3 - 16)^2$$

$$= (1 - 16)^2$$

$$= (-15)^2$$

$$= (-15)(-15) = \boxed{+225}$$

$$f) 2(2+3)^2$$

$$= 2(5)^2$$

$$= 2(25)$$

$$= \boxed{50}$$

$$g) -15 + \underbrace{7 \times 6} - \underbrace{30} / 2$$

$$= -15 + 42 - 15$$

$$= 42 - 30$$

$$= \boxed{12}$$

$$h) (14 \div 2 - 4)^2 + (3 - 2^2)$$

$$= (14 \div 2 - 4)^2 + (3 - 4)$$

$$= (7 - 4)^2 + (3 - 4)$$

$$= (3)^2 + (-1)$$

$$= 9 + (-1)$$

$$= \boxed{8}$$