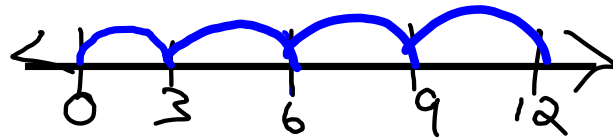


2.7. Multiplying
 + Dividing w/ \mathbb{Z} (Integers)

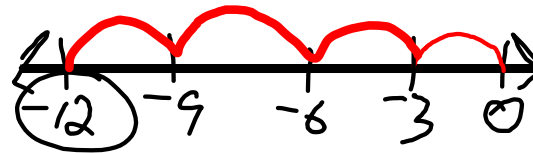
Nov. 15, 2006

Recall

$$3 \cdot 4 = 12$$



$$-3 \cdot 4 = \underline{\underline{-12}}$$



$$-3 \cdot -4 = 12$$

$$-(- (3 \cdot 4))$$

$$-3 \cdot -4 \cdot -2 = -24$$

$$-(- (12))$$

$$3 \cdot 4 \cdot 5 = 60$$

$$-(-12)$$

$$\underline{\underline{12}}$$

Da Rule! for Multi +
Division

If there is an Odd #
of Negatives:
Then the Result is Negative.

If there is an Even #
of Negatives:
Then the Result is Positive.

$$\text{ex 1)} -8 \cdot 7 = \underline{\underline{-56}}$$

$$\text{ex 2)} -9 \cdot -7 = \underline{\underline{63}}$$

$$\text{ex 3)} 8 \cdot 3 + 4 \cdot 5 = 24 + 20 = \underline{\underline{44}}$$

$$\text{ex 4)} -8 \cdot 2 + -5 \cdot -2 = 16 + 10 \\ = \underline{\underline{-6}}$$

Division

$$\frac{2a}{2} = \frac{8}{2}$$

$$\underline{\underline{a = 4}}$$

$$\frac{-2a}{-2} = \frac{8}{-2}$$

$$\underline{\underline{a = -4}}$$

$$\text{ex 5)} \quad -24 \div -6 = \underline{\underline{4}}$$

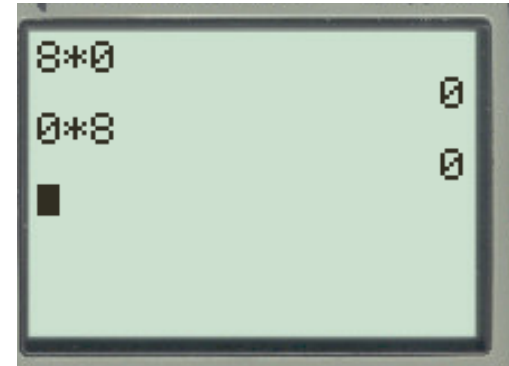
$$\text{ex 6)} \quad -36 \div 6 = \underline{\underline{-6}}$$

$$\text{ex 7)} \quad \frac{54}{-9} = \underline{\underline{-6}}$$

Zero!

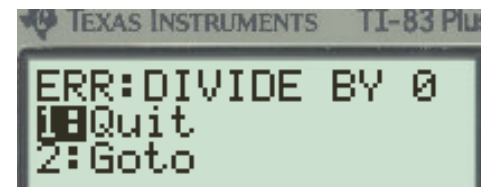
$$8 \cdot 0 = \underline{\underline{0}}$$

$$0 \cdot 8 = \underline{\underline{0}}$$



$$0 \div 8 = \underline{\underline{0}}$$

$$8 \div 0 = \underline{\underline{\text{undefined}}}$$



O.T.L.

Pg 54: Exp: 1-16 (a)

Pg 55: Written: 1-55
(every other odd)

ie: 1, 5, 9, 13, 17, ...