

RULE #1: A negative times a positive is a negative. (Division works the same way.)

WHY? Observe a pattern below:

$$4 \bullet 4 = 16$$

$$4 \bullet 3 = 12$$

$$4 \bullet 2 = 8$$

$$4 \bullet 1 = 4$$

$$4 \bullet 0 = 0$$

$$4 \bullet -1 = -4$$

$$4 \bullet -2 = -8$$

RULE #2: A negative times a negative is a positive. (Division works the same way.)

WHY? Observe a pattern below.

$$-4 \bullet 4 = -16$$

$$-4 \bullet 3 = -12$$

$$-4 \bullet 2 = -8$$

$$-4 \bullet 1 = -4$$

$$-4 \bullet 0 = 0$$

$$-4 \bullet -1 = 4$$

$$-4 \bullet -2 = 8$$