

# Multiplying and Dividing Integers

Even number of negatives = Positive

Odd number of negatives = Negative

Positive • Positive = Positive

+ • + = Positive

Negative • Negative = Positive

$$(-5)(-4) = 20$$

$$(-5)(4) = -20$$

$$(6)(-7) = -42$$

$$(-2)(-1)(-6)$$

$$\begin{aligned} & \checkmark \\ & (2)(-6) \\ & = \boxed{-12} \end{aligned}$$

$$(-1)(-2)(-3)(-4)$$

$$\begin{aligned} & \checkmark \\ & (2)(-3)(-4) \\ & \checkmark \\ & (-6)(-4) \\ & \checkmark \\ & \boxed{24} \end{aligned}$$

$$(2)(6)(-5)(-2)$$

$$\begin{aligned} & \checkmark \\ & (12)(-5)(-2) \end{aligned}$$

$$\begin{aligned} & \checkmark \\ & (-60)(-2) \end{aligned}$$

$$\boxed{120}$$

$$-48 \div 6 = -8$$

$$24 \div -6 = -4$$

$$-63 \div -9 = 7$$

- In one game the San Diego Chargers gained 187 yards rushing and 458 yards passing. They had 211 yards of penalties against the offense. How many total yards did they gain that night? → next page

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Multiplying and Dividing Cont.

$$187 + 458 = 211$$

$$645 - 211$$

$$434$$

They gained 434 yards.

2. The price of a stock market decreased \$2 per day for four consecutive days. What was the total change in value of the stock market over the four-day period?

$$(-2)(4) = -8$$

The stock market decreased \$8.

3. The population of a small town is changing at a rate of -255 people per year.

How long will it take for the change in population to be -2040 people?

$$-2040 \div -255 = \boxed{8}$$