

MULTIPLYING INTEGERS

Worksheet #8

Name: _____ Class: _____

Learning Goal: Students will be able to multiply integers in the form $(-a) \times (-b) \times (-c)$ using proper sign rules.

Example:

$$(-3) \times (-2) \times (-5) = -30$$

+	-	-
-	+	-
-	-	+

$$(-2) \times (-3) \times (-4) = \square$$

$$(-5) \times (-1) \times (-7) = \square$$

$$(-3) \times (-4) \times (-2) = \square$$

$$(-7) \times (-2) \times (-3) = \square$$

$$(-4) \times (-5) \times (-1) = \square$$

$$(-6) \times (-3) \times (-2) = \square$$

$$(-9) \times (-1) \times (-5) = \square$$

$$(-8) \times (-2) \times (-4) = \square$$

MULTIPLYING INTEGERS

Worksheet #8(Answers)

Name: _____ Class: _____

Learning Goal: Students will be able to multiply integers in the form $(-a) \times (-b) \times (-c)$ using proper sign rules.

Example:

$$(-3) \times (-2) \times (-5) = -30$$

$$(-2) \times (-3) \times (-4) = \square$$

$$\begin{aligned} -2 \times -3 \times -4 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ = 6 \times -4 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -24 \end{aligned}$$

$$(-5) \times (-1) \times (-7) = \square$$

$$\begin{aligned} -5 \times -1 \times -7 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 5 \times -7 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -35 \end{aligned}$$

$$(-3) \times (-4) \times (-2) = \square$$

$$\begin{aligned} -3 \times -4 \times -2 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 12 \times -2 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -24 \end{aligned}$$

$$(-7) \times (-2) \times (-3) = \square$$

$$\begin{aligned} -7 \times -2 \times -3 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 14 \times -3 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -42 \end{aligned}$$

$$(-4) \times (-5) \times (-1) = \square$$

$$\begin{aligned} -4 \times -5 \times -1 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ -20 \times -1 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -20 \end{aligned}$$

$$(-6) \times (-3) \times (-2) = \square$$

$$\begin{aligned} -6 \times -3 \times -2 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 18 \times -2 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -36 \end{aligned}$$

$$(-9) \times (-1) \times (-5) = \square$$

$$\begin{aligned} -9 \times -1 \times -5 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 9 \times -5 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -45 \end{aligned}$$

$$(-8) \times (-2) \times (-4) = \square$$

$$\begin{aligned} -8 \times -2 \times -4 & \quad \text{Negative} \times \text{Negative} = \text{Positive} \\ 16 \times -4 & \quad \text{Positive} \times \text{Negative} = \text{Negative} \\ = -64 \end{aligned}$$