

Prealgebra ~ Lesson 12

Work the following examples as you listen to the recorded lecture.

Multiplying and Dividing Integers**Sign Rules for Multiplying and Dividing**

1. Perform the multiplication and division.
2. Count the negative signs.
3. An even number of negative signs gives a positive answer.
4. An odd number of negative signs gives a negative answer.

Example 1:

$$-8(-8)$$

Example 2:

$$3(-15)$$

Example 3:

$$-4(20)$$

Example 4:

$$-7(0)$$

Example 5:

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

Example 6:

$$3(-5)(-4)$$

Example 7:

$$-4(20)(-92)(0)$$

Evaluate the following:

$$\text{Example 8: } -3^2$$

$$\text{Example 9: } (-3)^2$$

$$\text{Example 10: } (-4)^3$$

$$\text{Example 11: } \frac{-13}{0}$$

$$\text{Example 12: } -\frac{72}{8}$$

$$\text{Example 13: } (-1)^{32}$$

Translate each phrase, then simplify:

Example 14: Find the quotient of -63 and -3.

Example 15: The sum of 5 and -12.