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:   Example 2:   Example 3:   Example 4:

$-8(-8)$ $3(-15)$ $-4(20)$ $-7(0)$

Example 5:   Example 6:   Example 7:

$-2(-3)(-1)$ $3(-5)(-4)$ $-4(20)(-92)(0)$

Evaluate the following:

Example 8: -3^2 Example 9: $(-3)^2$

Example 10: $(-4)^3$ Example 11: $\dfrac{-13}{0}$

Example 12: $-\dfrac{72}{8}$ 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.