

**Learning Goal:**

By the end of this lesson I should be able to Multiply a negative number and a negative number together, WITHOUT the use of a calculator (technology).

- When we multiply a positive number and a negative number together, the final product (result) ends up being a negative value.  $(+) \times (-) = (-)$
- When we multiply a negative number and a negative number together, the final product (result) ends up being a positive value.  $(-) \times (-) = (+)$
- An "odd" number of negative signs in a multiplication or division problem leads to a negative answer.
- An "even" number of negative signs in a multiplication or division problem lead to a positive answer.

**Example Strategies:** Find the product of  $(-9)(-8)$

$$\begin{array}{r}
 (-10) + 2 \\
 \begin{array}{|c|c|}
 \hline
 (-10) & +100 & -20 \\
 \hline
 + & & \\
 -9 & -10 & 2 \\
 1 & & \\
 \hline
 \end{array} \\
 = 72
 \end{array}$$

**Skills Practice:** Find the product of the following:

(a)  $(-4)(-2)$

(b)  $(-9)(-11)$

(c)  $(-12)(-8)$

(d)  $(-12)(5)$

(e)  $(-3)(-7)(2)$

(f)  $(-1)(-3)(13)$

(g)  $(-1)(-2)(-1)$

(h)  $(4)(-6)(8)$

(i)  $(-5)(9)(0)$