



## Multiplying Different Sign Rational Numbers

**Rule 6:** When multiplying or dividing numbers with different signs, the answer is negative.

**Examples:**

**Simplify**  $-3(+8)$

$$-3(+8) = -24$$

**Simplify**  $\frac{-3}{5} \cdot \frac{2}{3}$

$$-1$$

$$\frac{\cancel{-3}}{5} \cdot \frac{2}{\cancel{3}} = \frac{-2}{5}$$

**Simplify**  $0.5(-0.7)$

$$0.5(-0.7) = -0.35$$

**Simplify the following.**

1.  $(-3)(+9)$

2.  $(-4)(+11)$

3.  $+5(-8)$

4.  $-10(6)$

5.  $(-15)(+3)$

6.  $(11)(-8)$

7.  $\frac{2}{3}\left(\frac{-4}{5}\right)$

8.  $\frac{-5}{11}\left(\frac{2}{9}\right)$

9.  $\frac{-3}{4} \cdot \frac{7}{9}$

10.  $(-0.5)(+1.2)$

11.  $1.1(-0.25)$

12.  $-7(0.25)$

13.  $\left(-3\frac{1}{3}\right)\frac{2}{5}$

14.  $\left(1\frac{3}{4}\right)(-7)$

15.  $\left(2\frac{1}{2}\right)\left(3\frac{3}{5}\right)$