

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**Learning Goal 3.3**

I can multiply and divide rational numbers.

**Recall** Multiplying integers:

a.  $8 \times 7$

b.  $(-8) \times 7$

c.  $8 \times (-7)$

d.  $(-11) \times (-9)$

e.  $(-14) \times 5$

f.  $2 \times (-12)$

**Recall** Multiplying decimals:

a.  $8.5 \times 7.2$

b.  $(-8.5) \times 7.2$

c.  $8.5 \times (-7.2)$

d.  $(-10.3) \times (-0.9)$

e.  $(-21.4) \times 5.6$

f.  $2.2 \times (-11.2)$

**Finally** Multiplying Fractions:

## 1. Proper and Improper Fractions.

a.  $\frac{2}{5} \times \frac{3}{7}$

b.  $\left(-\frac{2}{7}\right) \times \frac{5}{2}$

c.  $\frac{3}{7} \times \left(-\frac{4}{7}\right)$

d.  $\left(-\frac{5}{6}\right) \times \left(-\frac{11}{3}\right)$

e.  $\left(-\frac{1}{4}\right) \times \frac{3}{2}$

f.  $4 \times \left(-\frac{1}{3}\right)$

## 2. Mixed Fractions.

a.  $3\frac{2}{5} \times 1\frac{1}{2}$

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

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

d.  $\left(-1\frac{1}{6}\right) \times \left(-2\frac{11}{12}\right)$

e.  $\left(-2\frac{1}{2}\right) \times 1\frac{3}{7}$

f.  $1\frac{4}{5} \times \left(-1\frac{3}{8}\right)$