

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

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

**Learning Goal 3.2**

I can add and subtract rational numbers.

**Rational Numbers ( )****Recall** Adding integers:

a.  $8 + 7$

b.  $(-8) + 7$

c.  $8 + (-7)$

d.  $(-13) + (-9)$

e.  $(-14) + 5$

f.  $2 + (-12)$

**Recall** Adding decimals:

a.  $8.5 + 7.2$

b.  $(-8.5) + 7.2$

c.  $8.5 + (-7.2)$

d.  $(-10.3) + (-0.9)$

e.  $(-21.4) + 5.6$

f.  $2.2 + (-11.2)$

**Finally Adding Fractions:**1. Proper and Improper, with the **same denominator**.

a.  $\frac{2}{7} + \frac{3}{7}$

b.  $\left(-\frac{2}{7}\right) + \frac{3}{7}$

c.  $\frac{2}{7} + \left(-\frac{2}{7}\right)$

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

e.  $\left(-\frac{5}{2}\right) + \frac{3}{2}$

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

2. Proper and Improper, with **different denominators**.

a.  $\frac{2}{5} + \frac{3}{2}$

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

c.  $\frac{2}{5} + \left(-\frac{2}{2}\right)$

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

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

f.  $\frac{4}{3} + \left(-\frac{3}{8}\right)$