Math 30-2 **Rationals (Fractions)**

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

first and last

1. Circle all of the following rationals which are **NOT** possible and STATE WHY.

 a) $\frac{5}{5}$ b) $\frac{0}{3}$ c) 8 d) $\frac{7}{0}$ e) $\frac{-1}{-1}$

2. Reduce: (***Show all steps!***)

 a) $\frac{35}{45}$ b) $\frac{21}{18}$

 c) $\frac{4}{12}$ d) $\frac{8}{-10}$

 e) $\frac{-8}{-6}$ f) $\frac{48}{80}$

3. Multiply: (***Show all steps!***)

 a) $\frac{3}{7}$ × $\frac{5}{3}$ b) $\frac{13}{21}$ × $\frac{6}{7}$

 c) $\frac{14}{77}$ × $\frac{33}{29}$ d) $\frac{19}{10}$ × $\frac{8}{12}$

3. Divide: (***Show all steps!***)

 a) $\frac{11}{25}$ ÷ $\frac{7}{10}$ b) $\frac{22}{107}$ ÷ $\frac{28}{214}$

3. Add or subtract: (***Show all steps!***)

 a) $\frac{3}{5}$ + $\frac{2}{3}$ b) $\frac{5}{12}$ – $\frac{3}{8}$

 c) $\frac{2}{7}$ – $\frac{8}{11}$ d) $\frac{1}{9}$ + $\frac{5}{6}$