Day 02 Notes- GSE Algebra 1 Name:

0.5 Notes- Multiplying and Dividing Rational Numbers Date:                       Per:

The product or quotient of two rational numbers having the ***same sign*** is

The product of quotient of two rational numbers have ***different signs*** is

Examples:

 7.2(-.2) -23.94 ÷ (-10.5)

***To multiply fractions****: multiply the numerators, and multiply the denominators (Multiply across)*

Examples:

1. $\frac{2}{5}∙\frac{1}{3}$ 2) $\frac{3}{5}∙ 1\frac{1}{2}$  *(Make an improper fraction first!!)*

= $\frac{2∙1}{5∙3}$

= $\frac{2}{15}$

3) $\frac{1}{4}∙\frac{2}{9}$ (*Divide out the GCF of 2)* 4) $(-\frac{3}{4})(\frac{3}{8})$

***To divide fractions:*** *Keep Change Flip! (multiply the first fraction by the reciprocal of the second)*

Examples:

5) $\frac{1}{3}÷\frac{1}{2}$ 6) $\frac{3}{8}÷\frac{2}{3}$

 = $\frac{1}{3}∙\frac{2}{1}$

 = $\frac{2}{3}$

7)$ \frac{3}{4}÷1\frac{1}{2}$ 8) $-\frac{1}{5}÷(-\frac{3}{10})$