

Name: _____

Grade: _____

Score: _____

Worksheet #5

**Dividing Rational Numbers**

Learning Goal: Students will be able to divide and simplify rational numbers.

Example:

$$\frac{1}{2} \div \frac{7}{4} = \frac{2}{7}$$

a) $-\frac{1}{3} \div \frac{-5}{3} =$

f) $\frac{-2}{5} \div \frac{7}{5} =$

b) $\frac{-2}{7} \div \frac{5}{7} =$

g) $\frac{2}{7} \div \frac{-18}{15} =$

c) $\frac{2}{7} \div \frac{-18}{5} =$

h) $\frac{-2}{5} \div \frac{7}{5} =$

d) $\frac{-1}{7} \div \frac{21}{2} =$

i) $\frac{-4}{5} \div \frac{-8}{5} =$

e) $\frac{-2}{7} \div \frac{-12}{5} =$

j) $\frac{-1}{2} \div \frac{-11}{2} =$

Name: _____

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Worksheet #5(Answers)

**Dividing Rational Numbers**

Learning Goal: Students will be able to divide and simplify rational numbers.

Example:

$$\frac{1}{2} \div \frac{7}{4} = \frac{2}{7}$$

$$\text{a) } -\frac{1}{3} \div \frac{-5}{3} = \boxed{\frac{1}{5}} \quad \text{f) } \frac{-2}{5} \div \frac{7}{5} = \boxed{-\frac{2}{7}}$$

$$\text{b) } \frac{-2}{7} \div \frac{5}{7} = \boxed{-\frac{2}{5}} \quad \text{g) } \frac{2}{7} \div \frac{-18}{15} = \boxed{-\frac{5}{21}}$$

$$\text{c) } \frac{2}{7} \div \frac{-18}{5} = \boxed{\frac{5}{63}} \quad \text{h) } \frac{-2}{5} \div \frac{7}{5} = \boxed{-\frac{2}{7}}$$

$$\text{d) } \frac{-1}{7} \div \frac{21}{2} = \boxed{-\frac{2}{147}} \quad \text{i) } \frac{-4}{5} \div \frac{-8}{5} = \boxed{\frac{1}{2}}$$

$$\text{e) } \frac{-2}{7} \div \frac{-12}{5} = \boxed{\frac{5}{42}} \quad \text{j) } \frac{-1}{2} \div \frac{-11}{2} = \boxed{\frac{1}{11}}$$