

Name: _____

Grade: _____

Score: _____

Worksheet #4

**Dividing Rational Numbers**

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

Example:

$$\frac{-1}{3} \div \frac{-4}{5} = \frac{5}{12}$$

a) $\frac{-1}{3} \div \frac{-3}{4} =$

f) $\frac{-2}{3} \div \frac{-6}{9} =$

b) $\frac{-1}{3} \div \frac{-1}{7} =$

g) $\frac{-2}{5} \div \frac{-1}{8} =$

c) $\frac{-1}{7} \div \frac{-5}{9} =$

h) $\frac{-6}{7} \div \frac{5}{7} =$

d) $\frac{-1}{3} \div \frac{7}{9} =$

i) $\frac{-1}{3} \div \frac{7}{9} =$

e) $\frac{-2}{3} \div \frac{8}{9} =$

j) $\frac{-2}{5} \div \frac{1}{5} =$

Name: _____

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Worksheet #4(Answers)

**Dividing Rational Numbers**

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

Example:

$$\frac{-1}{3} \div \frac{-4}{5} = \frac{5}{12}$$

$$a) \frac{-1}{3} \div \frac{-3}{4} = \boxed{\frac{1}{4}}$$

$$f) \frac{-2}{3} \div \frac{-6}{9} = \boxed{\frac{4}{9}}$$

$$b) \frac{-1}{3} \div \frac{-1}{7} = \boxed{\frac{1}{21}}$$

$$g) \frac{-2}{5} \div \frac{-1}{8} = \boxed{\frac{1}{20}}$$

$$c) \frac{-1}{7} \div \frac{-5}{9} = \boxed{\frac{5}{63}}$$

$$h) \frac{-6}{7} \div \frac{5}{7} = \boxed{\frac{-30}{40}}$$

$$d) \frac{-1}{3} \div \frac{7}{9} = \boxed{\frac{-7}{27}}$$

$$i) \frac{-1}{3} \div \frac{7}{9} = \boxed{\frac{-7}{27}}$$

$$e) \frac{-2}{3} \div \frac{8}{9} = \boxed{\frac{-16}{27}}$$

$$j) \frac{-2}{5} \div \frac{1}{5} = \boxed{\frac{-2}{25}}$$