Name: **Grade:** **Score:**

Worksheet #7

Dividing Rational Numbers

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

Example:

$$\frac{-11}{3} \div \frac{-9}{6} = \frac{11}{2}$$

a) $\frac{-7}{16} \div \frac{-6}{5} =$

b) $\frac{9}{8} \div \frac{-21}{2} =$

c) $\frac{-4}{9} \div \frac{7}{2} =$

d) $\frac{-18}{5} \div \frac{4}{3} =$

e) $\frac{-10}{3} \div \frac{-3}{7} =$

f) $\frac{-5}{4} \div -\frac{5}{2} =$

g) $\frac{-11}{5} \div \frac{7}{4} =$

h) $\frac{9}{7} \div \frac{-8}{3} =$

i) $\frac{-8}{5} \div \frac{9}{4} =$

j) $\frac{-11}{3} \div \frac{-5}{3} =$

Name: **Grade:** **Score:**

Worksheet #7(Answers)

Dividing Rational Numbers

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

Example:

$$\frac{-11}{3} \div \frac{-9}{6} = \frac{11}{2}$$

a) $\frac{-7}{16} \div \frac{-6}{5} = \boxed{\frac{21}{40}}$

b) $\frac{9}{8} \div \frac{-21}{2} = \boxed{-\frac{189}{60}}$

c) $\frac{-4}{9} \div \frac{7}{2} = \boxed{\frac{-14}{19}}$

d) $\frac{-18}{5} \div \frac{4}{3} = \boxed{-\frac{24}{5}}$

e) $\frac{-10}{3} \div \frac{-3}{7} = \boxed{\frac{10}{7}}$

f) $\frac{-5}{4} \div -\frac{5}{2} = \boxed{\frac{-25}{8}}$

g) $\frac{-11}{5} \div \frac{7}{4} = \boxed{-\frac{77}{20}}$

h) $\frac{9}{7} \div \frac{-8}{3} = \boxed{-\frac{24}{7}}$

i) $\frac{-8}{5} \div \frac{9}{4} = \boxed{-\frac{18}{5}}$

j) $\frac{-11}{3} \div \frac{-5}{3} = \boxed{\frac{5}{9}}$