

Name: _____

Grade: _____

Score: _____

Worksheet #6

**Dividing Rational Numbers**

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

Example:

$$-2\frac{1}{3} \div \frac{-14}{15} = \frac{5}{2}$$

a) $-4\frac{1}{3} \div -\frac{1}{6} =$

f) $-3\frac{1}{3} \div \frac{4}{6} =$

b) $-2\frac{1}{2} \div \frac{3}{8} =$

g) $-3\frac{1}{4} \div \frac{5}{8} =$

c) $-3\frac{2}{5} \div \frac{2}{5} =$

h) $-3\frac{2}{15} \div \frac{4}{5} =$

d) $-2\frac{2}{3} \div \frac{-2}{3} =$

i) $-2\frac{2}{9} \div \frac{1}{3} =$

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

j) $-2\frac{1}{20} \div \frac{-4}{5} =$

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Worksheet #6 (Answers)

**Dividing Rational Numbers**

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

Example:

$$-2\frac{1}{3} \div \frac{-14}{15} = \frac{5}{2}$$

$$\text{a) } -4\frac{1}{3} \div -\frac{1}{6} = \frac{13}{8} \qquad \text{f) } -3\frac{1}{3} \div \frac{4}{6} = \frac{20}{9}$$

$$\text{b) } -2\frac{1}{2} \div \frac{3}{8} = \frac{15}{16} \qquad \text{g) } -3\frac{1}{4} \div \frac{5}{8} = \frac{65}{32}$$

$$\text{c) } -3\frac{2}{5} \div \frac{2}{5} = \frac{34}{22} \qquad \text{h) } -3\frac{2}{15} \div \frac{4}{5} = \frac{188}{75}$$

$$\text{d) } -2\frac{2}{3} \div \frac{-2}{3} = \frac{16}{9} \qquad \text{i) } -2\frac{2}{9} \div \frac{1}{3} = \frac{20}{27}$$

$$\text{e) } -2\frac{1}{5} \div \frac{-1}{5} = \frac{11}{25} \qquad \text{j) } -2\frac{1}{20} \div \frac{-4}{5} = \frac{41}{25}$$