

Name: _____

Grade: _____

Score: _____

Worksheet #9

**Multiplying Rational Numbers**

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

Example:

$$-2\frac{1}{2} \times -1\frac{2}{3} = \frac{25}{6}$$

a) $-1\frac{1}{3} \times 3\frac{1}{2} =$

f) $-2\frac{1}{3} \times 3\frac{1}{7} =$

b) $-1\frac{1}{5} \times 2\frac{1}{6} =$

g) $-2\frac{1}{2} \times 2\frac{1}{7} =$

c) $-3\frac{4}{5} \times 1\frac{1}{4} =$

h) $-3\frac{2}{5} \times 1\frac{8}{9} =$

d) $-6\frac{1}{3} \times 3\frac{1}{5} =$

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

e) $-5\frac{2}{3} \times 1\frac{3}{5} =$

j) $-1\frac{1}{3} \times 3\frac{1}{5} =$

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Worksheet #9(Answers)

**Multiplying Rational Numbers**

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

Example:

$$-2\frac{1}{2} \times -1\frac{2}{3} = \frac{25}{6}$$

$$\text{a) } -1\frac{1}{3} \times 3\frac{1}{2} = \boxed{-\frac{14}{3}} \quad \text{f) } -2\frac{1}{3} \times 3\frac{1}{7} = \boxed{\frac{22}{3}}$$

$$\text{b) } -1\frac{1}{5} \times 2\frac{1}{6} = \boxed{-\frac{13}{5}} \quad \text{g) } -2\frac{1}{2} \times 2\frac{1}{7} = \boxed{-\frac{75}{14}}$$

$$\text{c) } -3\frac{4}{5} \times 1\frac{1}{4} = \boxed{-\frac{19}{4}} \quad \text{h) } -3\frac{2}{5} \times 1\frac{8}{9} = \boxed{-\frac{289}{45}}$$

$$\text{d) } -6\frac{1}{3} \times 3\frac{1}{5} = \boxed{-\frac{304}{15}} \quad \text{i) } -1\frac{1}{3} \times 1\frac{2}{3} = \boxed{-\frac{20}{9}}$$

$$\text{e) } -5\frac{2}{3} \times 1\frac{3}{5} = \boxed{-\frac{136}{15}} \quad \text{j) } -1\frac{1}{3} \times 3\frac{1}{5} = \boxed{-\frac{64}{15}}$$