

Name: _____

Grade: _____

Score: _____

Worksheet #4

**Multiplying Rational Numbers**

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

Example:

$$\frac{-1}{2} \times \frac{-3}{7} = \frac{3}{14}$$

a) $-\frac{1}{8} \times \frac{-3}{5} =$

f) $\frac{-6}{7} \times \frac{3}{7} =$

b) $\frac{2}{7} \times \frac{-5}{6} =$

g) $\frac{-2}{3} \times \frac{1}{9} =$

c) $\frac{-4}{7} \times \frac{5}{9} =$

h) $-\frac{4}{7} \times \frac{6}{11} =$

d) $\frac{1}{7} \times -\frac{4}{9} =$

i) $-\frac{1}{3} \times \frac{4}{9} =$

e) $-\frac{2}{7} \times \frac{4}{5} =$

j) $-\frac{5}{3} \times \frac{1}{9} =$

Name: _____

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Worksheet #4(Answers)

**Multiplying Rational Numbers**

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

Example:

$$\frac{-1}{2} \times \frac{-3}{7} = \frac{3}{14}$$

$$a) -\frac{1}{8} \times \frac{-3}{5} = \boxed{\frac{3}{40}}$$

$$f) \frac{-6}{7} \times \frac{3}{7} = \boxed{-\frac{18}{49}}$$

$$b) \frac{2}{7} \times \frac{-5}{6} = \boxed{-\frac{5}{21}}$$

$$g) \frac{-2}{3} \times \frac{1}{9} = \boxed{-\frac{2}{27}}$$

$$c) \frac{-4}{7} \times \frac{5}{9} = \boxed{-\frac{20}{63}}$$

$$h) -\frac{4}{7} \times \frac{6}{11} = \boxed{-\frac{24}{77}}$$

$$d) \frac{1}{7} \times -\frac{4}{9} = \boxed{-\frac{4}{63}}$$

$$i) -\frac{1}{3} \times \frac{4}{9} = \boxed{-\frac{4}{27}}$$

$$e) -\frac{2}{7} \times \frac{4}{5} = \boxed{-\frac{8}{35}}$$

$$j) -\frac{5}{3} \times \frac{1}{9} = \boxed{-\frac{5}{27}}$$