

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## Multiplying Rational Numbers

1)  $(\frac{7}{8})(\frac{8}{7})(-.25)$

2)  $(-.2)(.2)(-\frac{1}{6})$

3)  $(\frac{6}{19})(-5.125)(-\frac{5}{6})$

4)  $(\frac{4}{8})(3.5)(-\frac{1}{3})$

5)  $(-\frac{3}{6})(.75)(0)$

6)  $(3.5)(-3\frac{3}{7})(5\frac{5}{9})$

## Answer Key

<p>1) <math>(\frac{7}{8})(\frac{8}{7})(-.25)</math> <math>-.25 = -\frac{1}{4}</math> <math>(\frac{7}{8})(\frac{8}{7}) = 1/1</math> <math>(1/1)(-\frac{1}{4}) =</math> Answer = <math>-\frac{1}{4}</math></p>	<p>2) <math>(-.2)(.2)(-\frac{1}{6})</math> <math>.2 = \frac{1}{5}</math> <math>(-\frac{1}{5})(\frac{1}{5}) = -\frac{1}{25}</math> <math>(-\frac{1}{25})(-\frac{1}{6}) =</math> Answer = <math>\frac{1}{150}</math></p>
<p>3) <math>(\frac{6}{19})(-5.125)(-\frac{5}{6})</math> <math>-5.125 = -5 \frac{1}{8}</math> or <math>-\frac{41}{8}</math> <math>(\frac{6}{19})(-\frac{41}{8}) = (\frac{3}{19})(-\frac{41}{4}) = -\frac{123}{76}</math> <math>(-\frac{123}{76})(-\frac{5}{6}) = (-\frac{41}{76})(-\frac{5}{2}) = \frac{205}{152}</math> Answer = <math>1 \frac{53}{152}</math></p>	<p>4) <math>(\frac{4}{8})(3.5)(-\frac{1}{3})</math> <math>\frac{4}{8} = \frac{1}{2}</math> <math>3.5 = 3 \frac{1}{2}</math> or <math>\frac{7}{2}</math> <math>(\frac{1}{2})(\frac{7}{2}) = \frac{7}{4}</math> <math>(\frac{7}{4})(-\frac{1}{3}) =</math> Answer = <math>-\frac{7}{12}</math></p>
<p>5) <math>(-\frac{3}{6})(.75)(0)</math> <math>-\frac{3}{6} = -\frac{1}{2}</math> <math>.75 = \frac{3}{4}</math> <math>(-\frac{1}{2})(\frac{3}{4}) = -\frac{3}{8}</math> <math>(-\frac{3}{8})(0) =</math> Answer = <math>0</math></p>	<p>6) <math>(3.5)(-3 \frac{3}{7})(5 \frac{5}{9})</math> <math>3.5 = 3 \frac{1}{2}</math> or <math>\frac{7}{2}</math> <math>-3 \frac{3}{7} = -\frac{24}{7}</math> <math>5 \frac{5}{9} = \frac{50}{9}</math> <math>(\frac{7}{2})(-\frac{24}{7}) = (1/1)(-12/1) = -12/1</math> <math>(\frac{7}{2})(-\frac{24}{7}) = (1/1)(-12/1) = -12/1</math> <math>(-12/1)(\frac{50}{9}) = (-4/1)(\frac{50}{3}) = -200/3</math> Answer = <math>-66 \frac{2}{3}</math></p>