

Math 105 Skill Builder # F - 2
Multiplying Two Fractions – No Simplification Required

Multiply the numerators together for the numerator of the product, and multiply the denominator together for the denominator for the product.

$$\frac{3}{4} \cdot \frac{1}{5} = \frac{3 \cdot 1}{4 \cdot 5}$$

Multiply 1 and 3 for the numerator; 4 and 5 for denominator.

$$= \frac{3}{20}$$

Stop, since the numerator and the denominator have no factor in common other than 1.

Examples:

Multiplying Two Fractions
$\frac{7}{9} \cdot \frac{2}{5} = \frac{7 \cdot 2}{9 \cdot 5} = \frac{14}{45}$
$\frac{15}{31} \cdot \frac{2}{7} = \frac{15 \cdot 2}{31 \cdot 7} = \frac{30}{217}$
$\frac{2}{5} \cdot \frac{3}{13} = \frac{2 \cdot 3}{5 \cdot 13} = \frac{6}{65}$

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Perform the indicated operation:

1) $\frac{3}{4} \cdot \frac{15}{4} =$

2) $\frac{7}{11} \cdot \frac{5}{6} =$

3) $\frac{5}{14} \cdot \frac{5}{8} =$

4) $\frac{1}{3} \cdot \frac{11}{20} =$
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5) $\frac{7}{9} \cdot \frac{2}{3} =$

6) $\frac{7}{12} \cdot \frac{5}{6} =$

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Answers:

1) $\frac{45}{16}$

2) $\frac{35}{66}$

3) $\frac{25}{112}$

4) $\frac{11}{60}$

5) $\frac{14}{27}$

6) $\frac{35}{72}$

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