

# Multiply Fractions

Different ways to find  $\frac{3}{4} \times \frac{6}{7}$ .

**Way 1** Multiply first. Then simplify.

**Step 1:** Multiply the numerators. Multiply the denominators.

$$\frac{3}{4} \times \frac{6}{7} = \frac{3 \times 6}{4 \times 7} = \frac{18}{28}$$

**Step 2:** Simplify the product if necessary.

$$\frac{18}{28} \xrightarrow{\div 2} \frac{9}{14}$$

$$\text{So } \frac{3}{4} \times \frac{6}{7} = \frac{9}{14}$$

**Way 2** Simplify first. Then multiply.

**Step 1:** Rewrite using factors.

$$\frac{3}{4} \times \frac{6}{7} = \frac{3 \times 2 \times 3}{2 \times 2 \times 7}$$

**Step 2:** Divide by common factors.

$$\frac{3 \times \overset{1}{\cancel{2}} \times 3}{\underset{1}{\cancel{2}} \times 2 \times 7}$$

**Step 3:** Simplify. Then multiply.

$$\frac{9 \times 1}{14 \times 1} = \frac{9}{14}$$

**Multiply. Write your answer in simplest form.**

1.  $\frac{3}{5} \times \frac{4}{5}$

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2.  $\frac{1}{3} \times \frac{1}{2}$

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3.  $\frac{1}{5} \times \frac{3}{7}$

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4.  $\frac{1}{2} \times \frac{2}{3}$

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5.  $\frac{2}{3} \times \frac{1}{4}$

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6.  $\frac{5}{7} \times \frac{8}{15}$

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7.  $\frac{4}{9} \times \frac{3}{5}$

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8.  $\frac{2}{7} \times 2$

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9.  $\frac{6}{7} \times \frac{1}{3}$

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10.  $6 \times \frac{5}{8}$

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11.  $\frac{3}{8} \times 2$

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12.  $\frac{5}{12} \times \frac{2}{5}$

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13.  $\frac{2}{7} \times 3$

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14.  $\frac{3}{10} \times \frac{2}{9}$

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15.  $4 \times \frac{3}{4}$

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16.  $\frac{4}{5} \times \frac{1}{8}$

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