



Factoring - Simplifying Fraction Multiplication with Factors - Composite

to Simplified

1 Use factorization to simplify

$$\frac{42}{3} \times \frac{5}{50} \times \frac{15}{35}$$

- | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{3}{7}$ | B $\frac{7}{2}$ | C $\frac{7}{5}$ | D $\frac{2}{3}$ | E $\frac{5}{3}$ | F $\frac{3}{5}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

2 Use factorization to simplify

$$\frac{75}{70} \times \frac{42}{15} \times \frac{1}{7}$$

- | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{7}{8}$ | B $\frac{2}{7}$ | C $\frac{2}{5}$ | D $\frac{3}{7}$ | E $\frac{3}{2}$ | F $\frac{2}{3}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

3 Use factorization to simplify

$$\frac{50}{7} \times \frac{1}{28} \times \frac{70}{25}$$

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|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{5}{7}$ | B $\frac{3}{2}$ | C $\frac{2}{5}$ | D $\frac{7}{8}$ | E $\frac{3}{4}$ | F $\frac{2}{3}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

4 Use factorization to simplify

$$\frac{60}{6} \times \frac{3}{10} \times \frac{3}{15}$$

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|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{3}{7}$ | B $\frac{2}{7}$ | C $\frac{3}{5}$ | D $\frac{7}{8}$ | E $\frac{5}{6}$ | F $\frac{2}{3}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

5 Use factorization to simplify

$$\frac{70}{35} \times \frac{2}{4} \times \frac{14}{35}$$

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|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{5}{2}$ | B $\frac{7}{2}$ | C $\frac{7}{3}$ | D $\frac{2}{3}$ | E $\frac{2}{5}$ | F $\frac{3}{2}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

6 Use factorization to simplify

$$\frac{42}{7} \times \frac{14}{12} \times \frac{2}{49}$$

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|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{2}{3}$ | B $\frac{7}{2}$ | C $\frac{2}{7}$ | D $\frac{3}{2}$ | E $\frac{2}{5}$ | F $\frac{7}{3}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

7 Use factorization to simplify

$$\frac{70}{35} \times \frac{6}{5} \times \frac{7}{12}$$

- | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{7}{8}$ | B $\frac{3}{2}$ | C $\frac{3}{5}$ | D $\frac{7}{2}$ | E $\frac{5}{6}$ | F $\frac{7}{5}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|

8 Use factorization to simplify

$$\frac{75}{2} \times \frac{7}{42} \times \frac{4}{10}$$

- | | | | | | |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A $\frac{2}{5}$ | B $\frac{7}{3}$ | C $\frac{5}{2}$ | D $\frac{5}{6}$ | E $\frac{2}{7}$ | F $\frac{3}{2}$ |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|