



Factoring - Simplifying Fraction Multiplication with Factors - Composite to Factored

1

$$\frac{2}{9} \times \frac{63}{21}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{2}{3 \times 3} \times \frac{3 \times 3 \times 3 \times 7}{3 \times 7}$	$\frac{2}{3 \times 3} \times \frac{3 \times 3 \times 7}{3 \times 7}$

2

$$\frac{5}{10} \times \frac{63}{21}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{5}{2} \times \frac{3 \times 3 \times 3 \times 7}{3 \times 7}$	$\frac{5}{2 \times 5} \times \frac{3 \times 3 \times 7}{3 \times 7}$

3

$$\frac{1}{28} \times \frac{24}{2}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{1}{2 \times 3} \times \frac{2 \times 2 \times 3}{2}$	$\frac{1}{2 \times 2 \times 7} \times \frac{2 \times 2 \times 2 \times 3}{2}$

4

$$\frac{21}{6} \times \frac{4}{10}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{3 \times 7}{2 \times 3} \times \frac{2 \times 2}{2 \times 5}$	$\frac{3 \times 3 \times 7}{2} \times \frac{2 \times 2}{2 \times 5}$

5

$$\frac{30}{84} \times \frac{2}{1}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{2 \times 3 \times 5}{2 \times 2 \times 3 \times 7} \times \frac{2}{1}$	$\frac{2 \times 2 \times 3}{3 \times 7 \times 7 \times 13} \times \frac{2}{7}$

6

$$\frac{3}{7} \times \frac{63}{45}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{3}{7} \times \frac{3 \times 7}{3 \times 3}$	$\frac{3}{7} \times \frac{3 \times 3 \times 7}{3 \times 3 \times 5}$

7

$$\frac{21}{7} \times \frac{35}{70}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{3 \times 7}{7} \times \frac{5 \times 7}{5 \times 7}$	$\frac{3 \times 7}{7} \times \frac{5 \times 7}{2 \times 5 \times 7}$

8

$$\frac{3}{15} \times \frac{75}{10}$$

Use factorization to simplify by showing what factors in this fraction multiplication can be cancelled out

A	B
$\frac{3}{3 \times 3 \times 5} \times \frac{3 \times 3 \times 13}{2 \times 5}$	$\frac{3}{3 \times 5} \times \frac{3 \times 5 \times 5}{2 \times 5}$