



Factoring - Simplifying Fraction Multiplication with Factors - Composite to Factored

1

$$\frac{14}{2} \times \frac{9}{45}$$

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

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

2

$$\frac{35}{21} \times \frac{9}{21}$$

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

A	B
$\frac{5 \times 7}{3 \times 7} \times \frac{3 \times 3}{3 \times 7}$	$\frac{5 \times 7}{3 \times 11} \times \frac{3 \times 3 \times 3 \times 3}{3 \times 7}$

3

$$\frac{2}{21} \times \frac{42}{14}$$

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

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

4

$$\frac{21}{63} \times \frac{6}{3}$$

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

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

5

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

$$\frac{15}{70} \times \frac{35}{3}$$

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

6

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

$$\frac{100}{6} \times \frac{1}{10}$$

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

7

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

$$\frac{1}{3} \times \frac{54}{30}$$

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

8

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

$$\frac{10}{50} \times \frac{14}{2}$$

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