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Factoring - Simplifying Fraction Division with Factors - Composite to Factored

1

$$\frac{30}{25} \div \frac{6}{2}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

2

$$\frac{5}{35} \div \frac{6}{28}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

3

$$\frac{12}{1} \div \frac{40}{5}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

$$\overset{A}{\frac{2 \times 2 \times 3}{1}} \times \frac{5}{2 \times 2 \times 2 \times 5}$$

$$\overset{B}{\frac{2 \times 3 \times 11}{1 \times 1}} \times \frac{5}{2 \times 2 \times 2 \times 5 \times 5}$$

4

$$\frac{5}{25} \div \frac{6}{42}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

A	B
$\frac{5}{5 \times 5} \times \frac{2 \times 3 \times 7}{2 \times 3}$	$\frac{5}{5 \times 5} \times \frac{2 \times 7}{11}$

5

$$\frac{70}{49} \div \frac{15}{7}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

6

$$\frac{70}{14} \div \frac{35}{2}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

7

$$\frac{6}{28} \div \frac{3}{6}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

8

$$\frac{6}{27} \div \frac{3}{9}$$

Use factorization to simplify. Invert and factor to show what factors in this fraction division can be cancelled out

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

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