



Factoring - Simplifying Fractions with Factors - Composite to Bracketed

Factors

1 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{7 \times 70}{25 \times 14}$$

$$\frac{(7 \times 7) \times (5 \times 7)}{(5 \times 5) \times (2 \times 7)}$$

$$\frac{C \quad (11) \times (5 \times 7)}{(5 \times 5) \times (2 \times 7)}$$

$$B \quad \frac{(7) \times (2 \times 5 \times 5 \times 7)}{(5 \times 5) \times (2 \times 7)}$$

$$D \quad \frac{(7) \times (2 \times 5 \times 7)}{(5 \times 5) \times (2 \times 7)}$$

2 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{30 \times 7}{6 \times 15}$$

$$A \quad \frac{(2 \times 5 \times 5) \times (11)}{(2 \times 3) \times (3 \times 5)}$$

$$C \quad \frac{(2 \times 3 \times 5) \times (7)}{(2 \times 3) \times (3 \times 5)}$$

$$B \quad \frac{(2 \times 3 \times 5) \times (7)}{(3 \times 11) \times (3)}$$

$$D \quad \frac{(2 \times 3 \times 5) \times (7)}{(3 \times 11) \times (3 \times 5 \times 5)}$$

3 Use factorization to factor each number and show what factors in this fraction can be cancelled out

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

$$A \quad \frac{(2) \times (2 \times 3 \times 3 \times 13)}{(3) \times (2 \times 5)}$$

$$C \quad \frac{(2) \times (2 \times 3)}{(2 \times 3) \times (5 \times 5)}$$

$$B \quad \frac{(2) \times (2 \times 3 \times 5)}{(2 \times 3) \times (5 \times 5)}$$

$$\frac{10 \times 9}{18 \times 2}$$

4 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$A \quad \frac{(2 \times 5) \times (3 \times 3)}{(2 \times 3 \times 3) \times (2)}$$

$$B \quad \frac{(2 \times 5) \times (3 \times 13)}{(2 \times 3 \times 3) \times (3)}$$

5 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{40}{7 \times 20}$$

$$A \quad \frac{(2 \times 2 \times 2 \times 5)}{(7) \times (2 \times 2 \times 5)}$$

$$C \quad \frac{(2 \times 2 \times 2 \times 5)}{(7) \times (2 \times 2 \times 2 \times 5)}$$

$$B \quad \frac{(2 \times 5 \times 5 \times 13)}{(7) \times (2 \times 2 \times 2 \times 5)}$$

$$D \quad \frac{(2 \times 2 \times 2 \times 2)}{(7) \times (2 \times 2 \times 5)}$$

6 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{75 \times 5}{15 \times 35}$$

$$A \quad \frac{(5 \times 11) \times (5)}{(3 \times 5) \times (5 \times 7)}$$

$$C \quad \frac{(3 \times 5 \times 11) \times (5 \times 5)}{(3) \times (7 \times 7 \times 7)}$$

$$B \quad \frac{(3 \times 5 \times 5) \times (5)}{(3 \times 5) \times (5 \times 7)}$$

$$D \quad \frac{(3 \times 5) \times (5)}{(3 \times 5 \times 5) \times (5 \times 5 \times 7)}$$

7 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{20 \times 3}{6 \times 15}$$

$$A \quad \frac{(2 \times 2 \times 5) \times (3)}{(3 \times 3) \times (3 \times 5)}$$

$$C \quad \frac{(2 \times 2 \times 5) \times (3)}{(2 \times 3) \times (3 \times 5)}$$

$$B \quad \frac{(2 \times 2 \times 5) \times (3)}{(3) \times (3 \times 5)}$$

$$D \quad \frac{(2 \times 7) \times (13)}{(2 \times 2 \times 3) \times (3 \times 5)}$$

8 Use factorization to factor each number and show what factors in this fraction can be cancelled out

$$\frac{30 \times 3}{75 \times 2}$$

$$A \quad \frac{(2 \times 2 \times 5) \times (13)}{(3 \times 5 \times 5 \times 5) \times (2)}$$

$$C \quad \frac{(2 \times 3 \times 5) \times (3)}{(3 \times 5 \times 5) \times (2)}$$

$$B \quad \frac{(2 \times 3 \times 7) \times (3)}{(3 \times 5 \times 5) \times (11)}$$

$$D \quad \frac{(2 \times 3 \times 5) \times (3 \times 3)}{(3 \times 5) \times (2)}$$