



Math worksheet on 'Factoring - Simplifying Fractions with Factors - Composite to Factored (Level 1)'. Part of a broader unit on 'Factoring, Multiplication, Division, Fractions - Intro'

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1 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{5 \times 20}{4 \times 35}$$

a $\frac{2 \times 5}{2 \times 2 \times 5 \times 5 \times 7}$	b $\frac{5 \times 2 \times 7 \times 5}{2 \times 2 \times 5 \times 7}$
c $\frac{5 \times 2 \times 2 \times 5}{2 \times 2 \times 5 \times 7}$	d $\frac{5 \times 2 \times 2 \times 2 \times 5}{2 \times 2 \times 2 \times 5 \times 7}$
e $\frac{5 \times 2 \times 2 \times 2 \times 5}{2 \times 2 \times 5 \times 7}$	f $\frac{5 \times 2 \times 5 \times 5}{2 \times 5 \times 7}$

2 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{15 \times 6}{12 \times 5}$$

a $\frac{3 \times 5 \times 5}{2 \times 2 \times 5}$	b $\frac{7 \times 5 \times 2 \times 3}{2 \times 2 \times 3 \times 5}$
c $\frac{3 \times 5 \times 2 \times 3}{2 \times 2 \times 13 \times 5}$	d $\frac{3 \times 5 \times 2 \times 3}{2 \times 2 \times 3 \times 5}$
e $\frac{11 \times 5 \times 2 \times 3}{2 \times 3 \times 5 \times 5}$	f $\frac{11 \times 5 \times 11}{2 \times 2 \times 3 \times 5}$

3 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{15 \times 15}{2 \times 75}$$

a $\frac{3 \times 5 \times 3 \times 5}{2 \times 3 \times 5 \times 5 \times 5}$	b $\frac{11 \times 5 \times 3 \times 2}{3 \times 5}$
c $\frac{3 \times 5 \times 3 \times 5}{3 \times 3 \times 5 \times 5}$	d $\frac{3 \times 5 \times 5 \times 3 \times 5}{2 \times 3 \times 3 \times 5}$
e $\frac{3 \times 5 \times 3 \times 5}{2 \times 3 \times 5 \times 3}$	f $\frac{3 \times 5 \times 3 \times 5}{2 \times 3 \times 5 \times 5}$

4 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{4 \times 35}{3 \times 70}$$

a $\frac{2 \times 2 \times 3}{3 \times 2 \times 5 \times 7}$	b $\frac{2 \times 2 \times 5 \times 7}{2 \times 2 \times 5 \times 5 \times 7}$
c $\frac{2 \times 2 \times 5 \times 7}{3 \times 2 \times 5 \times 7}$	d $\frac{2 \times 2 \times 5 \times 7}{7 \times 2 \times 5}$
e $\frac{2 \times 3 \times 5 \times 3}{3 \times 5 \times 7}$	

5 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{35 \times 14}{3 \times 98}$$

a $\frac{5 \times 7 \times 13 \times 5}{3 \times 2 \times 7 \times 7 \times 7}$	b $\frac{5 \times 7 \times 5 \times 5}{3 \times 2 \times 7 \times 7 \times 7}$
c $\frac{5 \times 2 \times 2 \times 7}{3 \times 2 \times 7 \times 7 \times 7}$	d $\frac{5 \times 7 \times 2}{3 \times 2 \times 2 \times 11}$
e $\frac{5 \times 7 \times 2 \times 7}{3 \times 2 \times 7 \times 7}$	f $\frac{5 \times 7 \times 3 \times 5}{3 \times 2 \times 7}$

6 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{3 \times 42}{21 \times 15}$$

a $\frac{13 \times 2 \times 7}{3 \times 7 \times 3 \times 5}$	b $\frac{3 \times 3 \times 2 \times 3 \times 7}{3 \times 7 \times 7 \times 3 \times 5 \times 5}$
c $\frac{3 \times 2 \times 3 \times 7}{3 \times 7 \times 3 \times 5}$	d $\frac{5 \times 2 \times 3 \times 7}{3 \times 7 \times 3 \times 3 \times 5}$
e $\frac{3 \times 2 \times 2 \times 2 \times 13}{3 \times 7}$	

7 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{15 \times 35}{30 \times 5}$$

a $\frac{5 \times 5 \times 7}{5 \times 3 \times 5 \times 5}$	b $\frac{3 \times 5 \times 5 \times 7}{2 \times 3 \times 5 \times 5}$
c $\frac{3 \times 5 \times 5 \times 7}{2 \times 3 \times 5 \times 5 \times 5}$	d $\frac{3 \times 5 \times 5 \times 7 \times 7}{2 \times 3 \times 5 \times 13}$
e $\frac{3 \times 5 \times 5 \times 7}{7 \times 3 \times 5 \times 11}$	f $\frac{3 \times 3 \times 5 \times 5 \times 7}{2 \times 3 \times 5 \times 5}$