



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

Learn online:

app.mobius.academy/math/units/factoring_multiplication_division_fractions_intro/

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

$$\frac{10 \times 10}{4 \times 35}$$

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

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

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

$$\frac{10 \times 9}{18 \times 3}$$

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

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

$$\frac{60}{6 \times 4}$$

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

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

$$\frac{50 \times 3}{5 \times 42}$$

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

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

$$\frac{12 \times 5}{20 \times 2}$$

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

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

$$\frac{40}{2 \times 28}$$

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