



Math worksheet on 'Factoring - Simplifying Fraction Multiplication with Factors - Composite to Simplified (Level 2)'. Part of a broader unit on 'Factoring, Multiplication, Division, Fractions - Advanced'

Learn online:

app.mobius.academy/math/units/factoring_multiplication_division_fractions_advanced

1

Use factorization to simplify

$$\frac{30}{42} \times \frac{2}{3} \times \frac{6}{10}$$

a

$$\frac{2}{3}$$

b

$$\frac{3}{2}$$

c

$$\frac{7}{2}$$

d

$$\frac{2}{7}$$

e

$$\frac{7}{3}$$

f

$$\frac{3}{4}$$

2

Use factorization to simplify

$$\frac{60}{6} \times \frac{3}{10} \times \frac{3}{15}$$

a

$$\frac{2}{3}$$

b

$$\frac{3}{7}$$

c

$$\frac{7}{8}$$

d

$$\frac{3}{5}$$

e

$$\frac{5}{6}$$

f

$$\frac{2}{7}$$

3

Use factorization to simplify

$$\frac{42}{7} \times \frac{14}{12} \times \frac{2}{49}$$

a

$$\frac{2}{5}$$

b

$$\frac{7}{2}$$

c

$$\frac{2}{7}$$

d

$$\frac{7}{3}$$

e

$$\frac{2}{3}$$

f

$$\frac{3}{2}$$

4

Use factorization to simplify

$$\frac{5}{14} \times \frac{28}{35} \times \frac{49}{35}$$

a

$$\frac{2}{7}$$

b

$$\frac{2}{5}$$

c

$$\frac{7}{5}$$

d

$$\frac{7}{3}$$

e

$$\frac{2}{3}$$

f

$$\frac{3}{5}$$

5

Use factorization to simplify

$$\frac{10}{90} \times \frac{5}{1} \times \frac{30}{25}$$

a

$$\frac{2}{3}$$

b

$$\frac{5}{6}$$

c

$$\frac{7}{5}$$

d

$$\frac{5}{7}$$

e

$$\frac{3}{7}$$

f

$$\frac{3}{2}$$

6

Use factorization to simplify

$$\frac{75}{70} \times \frac{42}{15} \times \frac{1}{7}$$

a

$$\frac{3}{2}$$

b

$$\frac{2}{3}$$

c

$$\frac{7}{8}$$

d

$$\frac{3}{7}$$

e

$$\frac{2}{5}$$

f

$$\frac{2}{7}$$

7

Use factorization to simplify

$$\frac{35}{25} \times \frac{10}{7} \times \frac{14}{70}$$

a

$$\frac{3}{7}$$

b

$$\frac{7}{2}$$

c

$$\frac{2}{5}$$

d

$$\frac{2}{3}$$

e

$$\frac{3}{5}$$

f

$$\frac{7}{5}$$