



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

Learn online:

[app.mobius.academy/math/units/factoring\\_multiplication\\_division\\_fractions\\_intro/](http://app.mobius.academy/math/units/factoring_multiplication_division_fractions_intro/)

1 Use factorization to simplify this fraction

$$\frac{9 \times 42 \times 7}{28 \times 63}$$

a	$\frac{5}{2}$	b	$\frac{5}{6}$	c	$\frac{3}{7}$
d	$\frac{3}{2}$	e	$\frac{2}{3}$	f	$\frac{7}{8}$

2 Use factorization to simplify this fraction

$$\frac{9 \times 2 \times 42}{6 \times 36}$$

a	$\frac{7}{8}$	b	$\frac{7}{2}$	c	$\frac{2}{3}$
d	$\frac{2}{7}$	e	$\frac{5}{3}$	f	$\frac{5}{6}$

3 Use factorization to simplify this fraction

$$\frac{50 \times 98}{70 \times 10 \times 2}$$

a	$\frac{3}{2}$	b	$\frac{3}{5}$	c	$\frac{7}{2}$
d	$\frac{7}{8}$	e	$\frac{5}{3}$	f	$\frac{5}{2}$

4 Use factorization to simplify this fraction

$$\frac{6 \times 21 \times 14}{15 \times 7 \times 28}$$

a	$\frac{7}{2}$	b	$\frac{3}{5}$	c	$\frac{5}{6}$
d	$\frac{2}{5}$	e	$\frac{2}{3}$	f	$\frac{7}{5}$

5 Use factorization to simplify this fraction

$$\frac{25 \times 10 \times 4}{100 \times 35}$$

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

6 Use factorization to simplify this fraction

$$\frac{21 \times 90}{45 \times 7 \times 15}$$

a	$\frac{7}{3}$	b	$\frac{2}{5}$	c	$\frac{3}{2}$
d	$\frac{7}{8}$	e	$\frac{2}{7}$	f	$\frac{5}{7}$

7 Use factorization to simplify this fraction

$$\frac{10 \times 14 \times 25}{5 \times 50 \times 4}$$

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