



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

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1 Use factorization to simplify

$$\frac{10}{7} \times \frac{6}{45} \times \frac{9}{4}$$

a	b	c	d	e	f
$\frac{7}{3}$	$\frac{3}{4}$	$\frac{2}{3}$	$\frac{5}{2}$	$\frac{3}{7}$	$\frac{2}{5}$

2 Use factorization to simplify

$$\frac{4}{2} \times \frac{10}{70} \times \frac{35}{14}$$

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

3 Use factorization to simplify

$$\frac{2}{7} \times \frac{50}{20} \times \frac{14}{4}$$

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

4 Use factorization to simplify

$$\frac{15}{30} \times \frac{25}{1} \times \frac{6}{45}$$

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

5 Use factorization to simplify

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

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

6 Use factorization to simplify

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

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

7 Use factorization to simplify

$$\frac{75}{2} \times \frac{7}{42} \times \frac{4}{10}$$

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