



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

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1 Use factorization to simplify

$$\frac{3 \times 5}{2} \div \frac{3 \times 3 \times 5}{3 \times 3}$$

a	3	b	7	c	5	d	3	e	2	f	5
	$\frac{3}{2}$		$\frac{7}{3}$		$\frac{5}{7}$		$\frac{3}{4}$		$\frac{2}{5}$		$\frac{5}{6}$

2 Use factorization to simplify

$$\frac{2 \times 2 \times 3 \times 5}{2 \times 5} \div \frac{3 \times 5}{1}$$

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

3 Use factorization to simplify

$$\frac{2}{2 \times 7} \div \frac{3 \times 7}{2 \times 3 \times 7}$$

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

4 Use factorization to simplify

$$\frac{2 \times 2 \times 7}{1} \div \frac{2 \times 2 \times 2 \times 3}{2}$$

a	7	b	2	c	5	d	7	e	3	f	3
	$\frac{7}{3}$		$\frac{2}{3}$		$\frac{5}{6}$		$\frac{7}{8}$		$\frac{3}{7}$		$\frac{3}{4}$

5 Use factorization to simplify

$$\frac{2 \times 5 \times 5}{3 \times 5} \div \frac{2 \times 5}{5}$$

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

6 Use factorization to simplify

$$\frac{7 \times 7}{3} \div \frac{2 \times 7 \times 7}{3 \times 5}$$

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

7 Use factorization to simplify

$$\frac{3 \times 5}{2 \times 3 \times 3} \div \frac{7}{2 \times 7}$$

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