



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

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

$$\frac{6 \times 10}{2 \times 45}$$

a $\frac{2 \times 2 \times 3 \times 2 \times 5}{2 \times 3 \times 3 \times 5}$	b $\frac{2 \times 2 \times 3 \times 2 \times 5}{2 \times 2 \times 3 \times 3 \times 3}$
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c $\frac{2 \times 3 \times 2 \times 5}{2 \times 3 \times 3 \times 5}$	
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2 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{30 \times 2}{90}$$

a $\frac{2 \times 3 \times 5 \times 2}{2 \times 3 \times 3 \times 5}$	b $\frac{2 \times 2 \times 3 \times 5 \times 2}{2 \times 3 \times 3 \times 5}$
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c $\frac{2 \times 3 \times 5}{2 \times 2 \times 3 \times 13 \times 5}$	
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3 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{3 \times 70}{14 \times 10}$$

a $\frac{3 \times 2 \times 7}{5 \times 2 \times 5}$	b $\frac{3 \times 2 \times 5 \times 7}{2 \times 2 \times 5 \times 5}$
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c $\frac{3 \times 2 \times 5 \times 7}{2 \times 7 \times 2 \times 5}$	
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4 Use factorization to show what factors in this fraction can be cancelled out

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

a $\frac{2 \times 3 \times 3 \times 3}{3 \times 3 \times 3 \times 3}$	b $\frac{2 \times 3}{3 \times 3 \times 3 \times 5}$
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c $\frac{2 \times 3 \times 3 \times 3 \times 3}{3 \times 3 \times 3 \times 3 \times 3}$	
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5 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{21 \times 35}{7 \times 75}$$

a $\frac{3 \times 7 \times 5 \times 7}{7 \times 3 \times 5 \times 5}$	b $\frac{3 \times 3 \times 7 \times 5 \times 7}{7 \times 7 \times 5}$
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c $\frac{3 \times 7 \times 5 \times 5 \times 7}{7 \times 3 \times 5 \times 5 \times 5}$	
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6 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{28 \times 3}{5 \times 42}$$

a $\frac{2 \times 2 \times 7 \times 3}{5 \times 2 \times 3 \times 7}$	b $\frac{2 \times 2 \times 7 \times 3}{5 \times 2 \times 7}$
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7 Use factorization to show what factors in this fraction can be cancelled out

$$\frac{14 \times 35}{5 \times 70}$$

a $\frac{2 \times 7 \times 5 \times 7}{5 \times 2 \times 5 \times 7}$	b $\frac{2 \times 7 \times 5}{5 \times 2 \times 7 \times 7}$
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