



Math worksheet on 'Fraction Manipulation Algebra - Orientation 3 (Level 2)'. Part of a broader unit on 'Algebra Basic Concepts - Advanced'

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1 Solve the fraction for 'x' in terms of the variables and reduce.

$$4a = \frac{b}{x}$$

a $x = \frac{b}{4a}$

b $x = 4a \cdot b$

c $x = \frac{4b}{a}$

d $x = \frac{4a}{b}$

2 Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{4f}{x}$$

a $x = 4a \cdot f$

b $x = \frac{4f}{a}$

c $x = \frac{f}{4a}$

3 Solve the fraction for 'x' in terms of the variables and reduce.

$$4a = \frac{e}{x}$$

a $x = \frac{a}{4e}$

b $x = \frac{e}{4a}$

c $x = \frac{4e}{a}$

d $x = \frac{e}{a}$

4 Solve the fraction for 'x' in terms of the variables and reduce.

$$3a = \frac{d}{x}$$

a $x = \frac{3a}{d}$

b $x = \frac{d}{3a}$

c $x = \frac{a}{3d}$

d $x = 3a \cdot d$

5 Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{3d}{x}$$

a $x = \frac{d}{3a}$

b $x = \frac{a}{3d}$

c $x = \frac{a \cdot d}{3}$

d $x = \frac{3d}{a}$

e $x = \frac{3a}{d}$

6 Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{4e}{x}$$

a $x = \frac{e}{4a}$

b $x = \frac{a}{4e}$

c $x = 4a \cdot e$

d $x = \frac{4e}{a}$

7 Solve the fraction for 'x' in terms of the variables and reduce.

$$a = \frac{2c}{x}$$

a $x = \frac{a \cdot c}{2}$

b $x = 2a \cdot c$

c $x = \frac{2c}{a}$

d $x = \frac{a}{2c}$