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Math worksheet on *'Fraction Manipulation Algebra - Orientation 3 (Level 4)'*. Part of a broader unit on *'Algebra Manipulating Variables - Intro'*

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

$$3a = \frac{4b}{3?}$$

a $\frac{3a}{12b}$ **b** $\frac{4a}{9b}$ **c** $\frac{3a \cdot b}{12}$

d $\frac{b}{a}$ **e** $\frac{4b}{9a}$

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

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

a $\frac{2a \cdot c}{4}$ **b** $\frac{c}{2a}$ **c** $\frac{2c}{4a}$

d $\frac{4a \cdot c}{2}$

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

$$2a = \frac{3b}{3?}$$

a $\frac{6a \cdot b}{3}$ **b** $\frac{b}{18a}$ **c** $\frac{b}{a}$

d $\frac{b}{2a}$

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

$$4a = \frac{2c}{2?}$$

a $\frac{4a \cdot c}{4}$ **b** $\frac{4a}{4c}$ **c** $\frac{c}{16a}$

d $\frac{c}{4a}$

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

$$4a = \frac{3c}{2?}$$

a $\frac{c}{a}$ **b** $\frac{c}{24a}$ **c** $\frac{3c}{8a}$

d $\frac{4a}{6c}$

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

$$4a = \frac{4b}{2?}$$

a $\frac{b}{2a}$ **b** $\frac{4a}{8b}$ **c** $\frac{4b}{8a}$

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

$$2a = \frac{4b}{2?}$$

a $\frac{2a \cdot b}{8}$ **b** $\frac{4a}{4b}$ **c** $\frac{b}{a}$