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Math worksheet on *'Fraction Manipulation Algebra - All (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.

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

a $\frac{12a \cdot b}{2}$ **b** $\frac{3a}{8b}$ **c** $6a \cdot b$ **d** $\frac{4a}{6b}$

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

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

a $\frac{b}{a}$ **b** $\frac{3b}{16a}$ **c** $\frac{4a}{12b}$ **d** $3a \cdot b$ **e** $\frac{4a \cdot b}{12}$

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

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

a $\frac{2a}{16b}$ **b** $\frac{4b}{8a}$ **c** $\frac{2b}{16a}$ **d** $\frac{4a \cdot b}{8}$ **e** $2a \cdot b$

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

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

a $\frac{b}{48a}$ **b** $3a \cdot b$ **c** $\frac{4b}{12a}$ **d** $\frac{3b}{16a}$

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

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

a $\frac{2a}{12c}$ **b** $\frac{8a \cdot c}{3}$ **c** $\frac{2c}{12a}$ **d** $\frac{c}{24a}$

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

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

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

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

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

a $\frac{2a}{12b}$ **b** $\frac{8a \cdot b}{3}$ **c** $\frac{2a \cdot b}{12}$ **d** $\frac{2b}{12a}$