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Math worksheet on *'Fraction Manipulation Algebra - Orientation 2 (Level 2)'*. Part of a broader unit on *'Algebra Manipulating Variables - Advanced'*

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$a = \frac{?}{3e}$$

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