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Math worksheet on *'Fraction Manipulation Algebra - Orientation 3 (Level 4)'*. 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.

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

a	b	c
$\dfrac{3a \cdot b}{4}$	$\dfrac{b}{3a}$	$\dfrac{6a \cdot b}{2}$
d $\dfrac{3b}{4a}$		

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

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

a	b	c
$\dfrac{2b}{2a}$	$\dfrac{2a \cdot b}{2}$	$\dfrac{b}{4a}$

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

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

a	b	c
$\dfrac{c}{a}$	$\dfrac{c}{2a}$	$\dfrac{c}{18a}$
d $\dfrac{2a}{9c}$	**e** $\dfrac{2a \cdot c}{9}$	

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

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

a	b	c
$\dfrac{a \cdot c}{2}$	$\dfrac{c}{2a}$	$\dfrac{a}{2c}$

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

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

a	b	c
$\dfrac{4c}{6a}$	$\dfrac{3a}{8c}$	$\dfrac{3c}{8a}$
d $\dfrac{4a \cdot c}{6}$		

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

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

a	b	c
$\dfrac{a}{2b}$	$\dfrac{b}{2a}$	$\dfrac{b}{a}$

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

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

a	b	c
$\dfrac{a}{8b}$	$\dfrac{b}{2a}$	$\dfrac{2a \cdot b}{4}$
d $\dfrac{b}{8a}$		