mobius

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

Learn online:

app.mobius.academy/math/units/algebra_manipulating_variables_advanced/

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

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

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

d $\frac{2b}{4a}$ **e** $\frac{b}{2a}$

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

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

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

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

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

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

d $\frac{a}{6c}$ **e** $\frac{a \cdot c}{6}$

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

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

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

d $\frac{3b}{4a}$ **e** $\frac{3a}{4b}$

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

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

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

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

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

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

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

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

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