



Math worksheet on 'Algebraic Functions - Variable Substitution to Equation - Multiple Fractional Terms (Level 2)'. Part of a broader unit on 'Algebra Basic Concepts - Practice'

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1 What does this equation become when $m=5, p=3, d=4, r=2$

$$\frac{6m}{5p} + \frac{2d}{4r}$$

a $\frac{6 \cdot 5}{5 \cdot 3} + \frac{2 \cdot 4}{4 \cdot 2}$	b $\frac{6 \cdot 5 + 2 \cdot 4}{5 \cdot 3}$
c $\frac{6 \cdot 5}{5 \cdot 3 - 2 \cdot 4}$	d $\frac{6 \cdot 5}{5 \cdot 3} \times \frac{2 \cdot 4}{4 \cdot 2}$
e $\frac{6 \cdot 5}{5 \cdot 3} - \frac{2 \cdot 4}{4 \cdot 2}$	f $\frac{6 \cdot 5}{5 \cdot 3} + \frac{2 \cdot 4}{4 \cdot 2}$

2 What does this equation become when $d=2, r=4, c=5, p=3$

$$\frac{4d}{2r} + \frac{6c}{5p}$$

a $\frac{4 \cdot 2}{2 \cdot 4} + \frac{6 \cdot 5}{5 \cdot 3}$	b $\frac{4 \cdot 2}{2 \cdot 4 - 6 \cdot 5}$
c $\frac{4 \cdot 2}{2 \cdot 4} \times \frac{6 \cdot 5}{5 \cdot 3}$	d $\frac{4 \cdot 2}{2 \cdot 4} - \frac{6 \cdot 5}{5 \cdot 3}$
e $\frac{4 \cdot 2 + 6 \cdot 5}{2 \cdot 4}$	f $\frac{4 + 2}{2 + 4} + \frac{6 + 5}{5 + 3}$

3 What does this equation become when $z=3, r=2, d=4, p=5$

$$\frac{4z}{6r} + \frac{5d}{4p}$$

a $\frac{4 \cdot 3}{6 \cdot 2} \times \frac{5 \cdot 4}{4 \cdot 5}$	b $\frac{4 + 3}{6 + 2} + \frac{5 + 4}{4 + 5}$
c $\frac{4 \cdot 3}{6 \cdot 2 - 5 \cdot 4}$	d $\frac{4 \cdot 3 + 5 \cdot 4}{6 \cdot 2}$
e $\frac{4 \cdot 3}{6 \cdot 2} - \frac{5 \cdot 4}{4 \cdot 5}$	f $\frac{4 \cdot 3}{6 \cdot 2} + \frac{5 \cdot 4}{4 \cdot 5}$

4 What does this equation become when $y=4, p=2, z=3, c=5$

$$\frac{3y}{6p} + \frac{5z}{3c}$$

a $\frac{3 \cdot 4}{6 \cdot 2} - \frac{5 \cdot 3}{3 \cdot 5}$	b $\frac{3 \cdot 4}{6 \cdot 2} + \frac{5 \cdot 3}{3 \cdot 5}$
c $\frac{3 + 4}{6 + 2} + \frac{5 + 3}{3 + 5}$	d $\frac{3 \cdot 4 + 5 \cdot 3}{6 \cdot 2}$
e $\frac{3 \cdot 4}{6 \cdot 2 - 5 \cdot 3}$	f $\frac{3 \cdot 4}{6 \cdot 2} \times \frac{5 \cdot 3}{3 \cdot 5}$

5 What does this equation become when $n=3, z=2, m=5, b=4$

$$\frac{4n}{3z} + \frac{4m}{5b}$$

a $\frac{4 \cdot 3 + 4 \cdot 5}{3 \cdot 2}$	b $\frac{4 \cdot 3}{3 \cdot 2 - 4 \cdot 5}$
c $\frac{4 \cdot 3}{3 \cdot 2} + \frac{4 \cdot 5}{5 \cdot 4}$	d $\frac{4 + 3}{3 + 2} + \frac{4 + 5}{5 + 4}$
e $\frac{4 \cdot 3}{3 \cdot 2} \times \frac{4 \cdot 5}{5 \cdot 4}$	f $\frac{4 \cdot 3}{3 \cdot 2} - \frac{4 \cdot 5}{5 \cdot 4}$

6 What does this equation become when $m=3, b=5, z=4, d=2$

$$\frac{5m}{3b} + \frac{4z}{2d}$$

a $\frac{5 \cdot 3}{3 \cdot 5} \times \frac{4 \cdot 4}{2 \cdot 2}$	b $\frac{5 \cdot 3}{3 \cdot 5 - 4 \cdot 4}$
c $\frac{5 \cdot 3}{3 \cdot 5} - \frac{4 \cdot 4}{2 \cdot 2}$	d $\frac{5 \cdot 3}{3 \cdot 5} + \frac{4 \cdot 4}{2 \cdot 2}$
e $\frac{5 \cdot 3 + 4 \cdot 4}{3 \cdot 5}$	f $\frac{5 + 3}{3 + 5} + \frac{4 + 4}{2 + 2}$

7 What does this equation become when $n=4, p=3, x=5, b=2$

$$\frac{6n}{2p} + \frac{4x}{5b}$$

a $\frac{6 \cdot 4}{2 \cdot 3} + \frac{4 \cdot 5}{5 \cdot 2}$	b $\frac{6 + 4}{2 + 3} + \frac{4 + 5}{5 + 2}$
c $\frac{6 \cdot 4}{2 \cdot 3 - 4 \cdot 5}$	d $\frac{6 \cdot 4}{2 \cdot 3} - \frac{4 \cdot 5}{5 \cdot 2}$
e $\frac{6 \cdot 4 + 4 \cdot 5}{2 \cdot 3}$	f $\frac{6 \cdot 4}{2 \cdot 3} \times \frac{4 \cdot 5}{5 \cdot 2}$