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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 r=4, z=3, n=5, c=2

$$\frac{3r}{2z} + \frac{4n}{2c}$$

a $\frac{3 \cdot 4}{2 \cdot 3 - 4 \cdot 5}$

b $\frac{3 \cdot 4}{2 \cdot 3} \times \frac{4 \cdot 5}{2 \cdot 2}$

c $\frac{3+4}{2+3} + \frac{4+5}{2+2}$

d $\frac{3 \cdot 4}{2 \cdot 3} + \frac{4 \cdot 5}{2 \cdot 2}$

e $\frac{3 \cdot 4}{2 \cdot 3} - \frac{4 \cdot 5}{2 \cdot 2}$

f $\frac{3 \cdot 4 + 4 \cdot 5}{2 \cdot 3}$

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

$$\frac{3r}{2c} + \frac{6m}{3p}$$

a $\frac{3 \cdot 4}{2 \cdot 3} \times \frac{6 \cdot 5}{3 \cdot 2}$

b $\frac{3 \cdot 4}{2 \cdot 3 - 6 \cdot 5}$

c $\frac{3 \cdot 4}{2 \cdot 3} - \frac{6 \cdot 5}{3 \cdot 2}$

d $\frac{3 \cdot 4}{2 \cdot 3} + \frac{6 \cdot 5}{3 \cdot 2}$

e $\frac{3+4}{2+3} + \frac{6+5}{3+2}$

f $\frac{3 \cdot 4 + 6 \cdot 5}{2 \cdot 3}$

3 What does this equation become when c=2, z=5, x=4, m=3

$$\frac{5c}{2z} + \frac{3x}{4m}$$

a $\frac{5+2}{2+5} + \frac{3+4}{4+3}$

b $\frac{5 \cdot 2}{2 \cdot 5} \times \frac{3 \cdot 4}{4 \cdot 3}$

c $\frac{5 \cdot 2}{2 \cdot 5 - 3 \cdot 4}$

d $\frac{5 \cdot 2}{2 \cdot 5} - \frac{3 \cdot 4}{4 \cdot 3}$

e $\frac{5 \cdot 2 + 3 \cdot 4}{2 \cdot 5}$

f $\frac{5 \cdot 2}{2 \cdot 5} + \frac{3 \cdot 4}{4 \cdot 3}$

4 What does this equation become when b=5, n=2, x=3, y=4

$$\frac{6b}{5n} + \frac{4x}{3y}$$

a $\frac{6 \cdot 5 + 4 \cdot 3}{5 \cdot 2}$

b $\frac{6 \cdot 5}{5 \cdot 2} - \frac{4 \cdot 3}{3 \cdot 4}$

c $\frac{6+5}{5+2} + \frac{4+3}{3+4}$

d $\frac{6 \cdot 5}{5 \cdot 2 - 4 \cdot 3}$

e $\frac{6 \cdot 5}{5 \cdot 2} + \frac{4 \cdot 3}{3 \cdot 4}$

f $\frac{6 \cdot 5}{5 \cdot 2} \times \frac{4 \cdot 3}{3 \cdot 4}$

5 What does this equation become when c=3, x=2, y=4, r=5

$$\frac{6c}{3x} + \frac{5y}{2r}$$

a $\frac{6 \cdot 3}{3 \cdot 2 - 5 \cdot 4}$

b $\frac{6 \cdot 3 + 5 \cdot 4}{3 \cdot 2}$

c $\frac{6 \cdot 3}{3 \cdot 2} \times \frac{5 \cdot 4}{2 \cdot 5}$

d $\frac{6 \cdot 3}{3 \cdot 2} + \frac{5 \cdot 4}{2 \cdot 5}$

e $\frac{6+3}{3+2} + \frac{5+4}{2+5}$

f $\frac{6 \cdot 3}{3 \cdot 2} - \frac{5 \cdot 4}{2 \cdot 5}$

6 What does this equation become when p=5, x=3, c=4, r=2

$$\frac{6p}{2x} + \frac{3c}{2r}$$

a $\frac{6 \cdot 5}{2 \cdot 3} \times \frac{3 \cdot 4}{2 \cdot 2}$

b $\frac{6 \cdot 5 + 3 \cdot 4}{2 \cdot 3}$

c $\frac{6 \cdot 5}{2 \cdot 3} + \frac{3 \cdot 4}{2 \cdot 2}$

d $\frac{6 \cdot 5}{2 \cdot 3} - \frac{3 \cdot 4}{2 \cdot 2}$

e $\frac{6+5}{2+3} + \frac{3+4}{2+2}$

f $\frac{6 \cdot 5}{2 \cdot 3 - 3 \cdot 4}$

7 What does this equation become when z=4, n=3, p=5, d=2

$$\frac{6z}{2n} + \frac{2p}{5d}$$

a $\frac{6 \cdot 4}{2 \cdot 3} \times \frac{2 \cdot 5}{5 \cdot 2}$

b $\frac{6 \cdot 4 + 2 \cdot 5}{2 \cdot 3}$

c $\frac{6 \cdot 4}{2 \cdot 3 - 2 \cdot 5}$

d $\frac{6+4}{2+3} + \frac{2+5}{5+2}$

e $\frac{6 \cdot 4}{2 \cdot 3} + \frac{2 \cdot 5}{5 \cdot 2}$

f $\frac{6 \cdot 4}{2 \cdot 3} - \frac{2 \cdot 5}{5 \cdot 2}$