mobius

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

Learn online: app.mobius.academy/math/units/algebra_basic_concepts_advanced/

1 What does this equation become when m=-4, d=4, r=5, b=3

$$\frac{-6m}{3d} - \frac{3r}{5b}$$

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

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

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

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

e $\frac{-6 \cdot -4}{3 \cdot 4} \times \frac{3 \cdot 5}{5 \cdot 3}$

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

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

$$\frac{-3x}{2b} - \frac{4n}{5z}$$

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

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

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

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

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

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

3 What does this equation become when p=-4, b=4, c=3, m=2

$$\frac{-4p}{4b} - \frac{4c}{6m}$$

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

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

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

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

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

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

4 What does this equation become when z=-4, x=-2, d=4, y=3

$$\frac{-2z}{4x} - \frac{6d}{2y}$$

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

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

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

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

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

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

5 What does this equation become when m=-4, y=2, b=3, p=-2

$$\frac{6m}{3y} + \frac{4b}{2p}$$

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

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

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

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

e $\frac{6 \cdot -4}{3 \cdot 2} - \frac{4 \cdot 3}{2 \cdot -2}$

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

6 What does this equation become when b=-5, m=-2, p=3, y=2

$$\frac{6b}{3m} + \frac{4p}{3y}$$

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

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

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

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

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

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

7 What does this equation become when y=5, r=-2, p=-3, z=3

$$\frac{-4y}{5r} - \frac{6p}{3z}$$

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

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

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

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

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

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