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

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1 What does this equation become when x=-6, r=6, d=3

$$\frac{5x - 2d}{3r}$$

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

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

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

d $5 - -6 + 3 - 6$

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

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

2 What does this equation become when n=5, c=3, p=-7

$$\frac{7n + 5p}{3c}$$

a $\frac{7 - 5 - 5 - -7}{3 - 3}$

b $7^{5} + 3^{3}$

c $\frac{7 \cdot 5 + 5 \cdot -7}{3 \cdot 3}$

d $\frac{7 + 5 + 5 + -7}{3 + 3}$

e $\frac{7^{5} + 5^{-7}}{3^{3}}$

f $7 - 5 + 3 - 3$

3 What does this equation become when c=5, n=2, b=-5

$$\frac{3c + 3b}{2n}$$

a $\frac{3^{5} + 3^{-5}}{2^{2}}$

b $3^{5} + 2^{2}$

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

d $3 - 5 + 2 - 2$

e $\frac{3 + 5 + 3 + -5}{2 + 2}$

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

4 What does this equation become when c=-4, y=2, x=4

$$\frac{5c - 4x}{2y}$$

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

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

c $\frac{5^{-4} + 4^{4}}{2^{2}}$

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

e $5 - -4 + 2 - 2$

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

5 What does this equation become when b=4, x=-6, n=-4

$$\frac{7b + 7n}{3x}$$

a $\frac{7^{4} + 7^{-4}}{3^{-6}}$

b $7 - 4 + 3 - -6$

c $7^{4} + 3^{-6}$

d $\frac{7 \cdot 4 + 7 \cdot -4}{3 \cdot -6}$

e $\frac{7 - 4 - 7 - -4}{3 - -6}$

f $\frac{7 + 4 + 7 + -4}{3 + -6}$

6 What does this equation become when n=-6, y=-3, d=2

$$\frac{2n - 6d}{2y}$$

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

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

c $2 - -6 + 2 - -3$

d $\frac{2^{-6} + 6^{2}}{2^{-3}}$

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

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

7 What does this equation become when p=5, n=-2, x=-3

$$\frac{3p + 7x}{3n}$$

a $\frac{3 \cdot 5 + 7 \cdot -3}{3 \cdot -2}$

b $\frac{3 - 5 - 7 - -3}{3 - -2}$

c $\frac{3 + 5 + 7 + -3}{3 + -2}$

d $3 - 5 + 3 - -2$

e $3^{5} + 3^{-2}$

f $\frac{3^{5} + 7^{-3}}{3^{-2}}$