mobius

Math worksheet on *'Algebraic Function Variable Substitution - Multiple Fractional Squared Terms (Level 3)'*. Part of a broader unit on *'Algebra Basic Concepts - Advanced'*

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

**1** What is the value of this equation when z=8, d=7, n=5

$$\frac{5z^2}{5d^2 + 3n^2}$$

| a | b | c |
|---|---|---|
| 565 | 1 | 355 |
| **d** | **e** | **f** |
| 4 | $-3z$ | −565 |

**2** What is the value of this equation when x=5, d=3, b=4

$$\frac{4x^2}{2d^2 + 2b^2}$$

| a | b | c |
|---|---|---|
| −5 | 118 | 1 |
| **d** | **e** | **f** |
| −118 | 106 | 2 |

**3** What is the value of this equation when r=5, p=2, b=6

$$\frac{4r^2}{7p^2 + 2b^2}$$

| a | b | c |
|---|---|---|
| −4 | 128 | −128 |
| **d** | **e** | **f** |
| 1 | 114 | 3 |

**4** What is the value of this equation when z=5, x=3, p=2

$$\frac{3z^2}{7x^2 + 3p^2}$$

| a | b | c |
|---|---|---|
| −2 | −138 | 96 |
| **d** | **e** | **f** |
| $-2z$ | 1 | 138 |

**5** What is the value of this equation when z=8, m=2, b=4

$$\frac{5z^2}{2m^2 + 2b^2}$$

| a | b | c |
|---|---|---|
| −3 | −328 | 8 |
| **d** | **e** | **f** |
| 328 | 4 | 324 |

**6** What is the value of this equation when c=8, m=2, x=5

$$\frac{2c^2}{7m^2 + 4x^2}$$

| a | b | c |
|---|---|---|
| −2 | −3 | −156 |
| **d** | **e** | **f** |
| 1 | 142 | 156 |

**7** What is the value of this equation when z=8, c=7, y=5

$$\frac{5z^2}{5c^2 + 3y^2}$$

| a | b | c |
|---|---|---|
| 565 | 1 | −565 |
| **d** | **e** | **f** |
| 3 | 355 | −4 |