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

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**1** What is the value of this equation when d=8, n=2, r=6, x=3

$$\frac{4d^2}{2n^2} + \frac{3r^2}{6x^2}$$

| a | b | c |
|---|---|---|
| −264 | −5 | 260 |
| **d** | **e** | **f** |
| 264 | 34 | 1 |

**2** What is the value of this equation when d=6, c=3, z=4, r=2

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

| a | b | c |
|---|---|---|
| 144 | 11 | 4 |
| **d** | **e** | **f** |
| −144 | 1 | 120 |

**3** What is the value of this equation when y=8, n=4, c=6, p=3

$$\frac{3y^2}{3n^2} + \frac{6c^2}{6p^2}$$

| a | b | c |
|---|---|---|
| −240 | 8 | 4 |
| **d** | **e** | **f** |
| 204 | 3 | 240 |

**4** What is the value of this equation when y=8, x=4, p=6, m=2

$$\frac{3y^2}{6x^2} + \frac{6p^2}{6m^2}$$

| a | b | c |
|---|---|---|
| 3 | 288 | −288 |
| **d** | **e** | **f** |
| 11 | 216 | 1 |

**5** What is the value of this equation when x=7, y=2, p=8, r=4

$$\frac{4x^2}{7y^2} + \frac{6p^2}{4r^2}$$

| a | b | c |
|---|---|---|
| 224 | 210 | −224 |
| **d** | **e** | **f** |
| 1 | 1 | 13 |