Name: _____ Date: _____

Fresh Math

Unit 1 – Substitution of Variables

Substitute the given values for each variable.

1. $4x^2 + 4y - 4z$; $x = 6$, $y = 3$, $z = 2$
2. $3w + 3x + 4y - 3z$; $w = 6$, $x = 6$, $y = 4$, $z = 5$
3. $1w + 3x + 4y - 3z$; $w = 2$, $x = 6$, $y = 6$, $z = 2$
4. $2x^2 + 4y^2 + 4$; $x = 4$, $y = 4$
5. $2(3x + 3y)$; $x = 3$, $y = 7$
6. $4x^2 + 5y - 3z$; $x = 6$, $y = 5$, $z = 6$
7. $2x^2 + 3y^2 + 3$; $x = 4$, $y = 4$
8. $1x^2 + 5y^2 + 1$; $x = 2$, $y = 3$

Unit 1 - Substitution of Variables - Answer Key

1. $4x^2 + 4y - 4z$; $x = 6$, $y = 3$, $z = 2$
   148

2. $3w + 3x + 4y - 3z$; $w = 6$, $x = 6$, $y = 4$, $z = 5$
   38

3. $1w + 3x + 4y - 3z$; $w = 2$, $x = 6$, $y = 6$, $z = 2$
   37

4. $2x^2 + 4y^2 + 4$; $x = 4$, $y = 4$
   100

5. $2(3x + 3y)$; $x = 3$, $y = 7$
   60

6. $4x^2 + 5y - 3z$; $x = 6$, $y = 5$, $z = 6$
   151

7. $2x^2 + 3y^2 + 3$; $x = 4$, $y = 4$
   83

8. $1x^2 + 5y^2 + 1$; $x = 2$, $y = 3$
   50