



Name: _____

Date: _____

Unit 1 – Evaluating an Expression

Evaluate each expression for the given values.

1. $3x^2 + 3y^2$; $x = 2$, $y = 4$

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

3. $\frac{4x + y + 10}{3}$; $x = 5$, $y = 6$

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

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

6. $\frac{3x + y + 1}{3}$; $x = 4$, $y = 2$

7. $3x + 2y - 5z$; $x = 7$, $y = 8$, $z = 6$

8. $\frac{3x + y + 4}{3}$; $x = 6$, $y = 2$



Unit 1 – Evaluating an Expression – Answer Key

1. $3x^2 + 3y^2$; $x = 2$, $y = 4$
60

2. $3x^2 + 4y^2$; $x = 4$, $y = 2$
64

3. $\frac{4x + y + 10}{3}$; $x = 5$, $y = 6$
12

4. $2x + 5y - 4z$; $x = 6$, $y = 3$, $z = 3$
15

5. $1x^2 + 2y^2$; $x = 2$, $y = 5$
54

6. $\frac{3x + y + 1}{3}$; $x = 4$, $y = 2$
5

7. $3x + 2y - 5z$; $x = 7$, $y = 8$, $z = 6$
7

8. $\frac{3x + y + 4}{3}$; $x = 6$, $y = 2$
8