



Name: _____

Date: _____

Algebra 1 – Unit 1 – Substitution of Variables (Challenge)

Substitute the given values for each variable.

1. $4(5x + 3y); x=4, y=3$

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

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

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

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

6. $3(3x + 2y); x=3, y=7$

7. $1w + 4x + 2y - 3z; w=3, x=2, y=5, z=7$

8. $2x^2 + 2y^2 + 2; x=5, y=4$



Algebra 1 – Unit 1 – Substitution of Variables (Challenge) – Answer Key

1. $4(5x + 3y); x=4, y=3$

116

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

12

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

77

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

100

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

25

6. $3(3x + 2y); x=3, y=7$

69

7. $1w + 4x + 2y - 3z; w=3, x=2, y=5, z=7$

0

8. $2x^2 + 2y^2 + 2; x=5, y=4$

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