



Name: _____

Date: _____

Evaluating Expressions – Challenge

Evaluate each expression for the given values.

1. $\frac{5x + y + 20}{4}$; $x = 6, y = 2$

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

3. $\frac{2x + 3y}{2}$; $x = 8, y = 5$

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

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

6. $4x^2 + 6x - 7$; $x = 5$

7. $5x + 4y - 3z$; $x = 7, y = 5, z = 6$

8. $2x^2 + 5x - 4$; $x = 4$



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Evaluating Expressions – Challenge

Evaluate each expression for the given values.

$$9. \ 4x^2 + 4x - 8; x = 2$$

$$10. 3x^2 + 2y^2; x = 2, y = 2$$

$$11. 3x^2 + 6x - 4; x = 2$$

$$12. 4x + 5y - 5z; x = 4, y = 3, z = 4$$

$$13. \frac{2x + 3y}{2}; x = 4, y = 3$$

$$14. \frac{2x + 3y}{2}; x = 3, y = 2$$

$$15. 2x^2 + 4x - 4; x = 5$$

$$16. 5x + 4y - 2z; x = 6, y = 4, z = 3$$



Evaluating Expressions – Challenge – Answer Key

1. $\frac{5x + y + 20}{4}$; $x = 6, y = 2$
13

2. $3x^2 + 3y^2$; $x = 5, y = 4$
123

3. $\frac{2x + 3y}{2}$; $x = 8, y = 5$
15

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

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

6. $4x^2 + 6x - 7$; $x = 5$
123

7. $5x + 4y - 3z$; $x = 7, y = 5, z = 6$
37

8. $2x^2 + 5x - 4$; $x = 4$
48



Evaluating Expressions – Challenge – Answer Key

9. $4x^2 + 4x - 8; x = 2$

16

10. $3x^2 + 2y^2; x = 2, y = 2$

20

11. $3x^2 + 6x - 4; x = 2$

20

12. $4x + 5y - 5z; x = 4, y = 3, z = 4$

11

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

8

14. $\frac{2x + 3y}{2}; x = 3, y = 2$

6

15. $2x^2 + 4x - 4; x = 5$

66

16. $5x + 4y - 2z; x = 6, y = 4, z = 3$

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