



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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