

Name: \_\_\_\_\_

Date: \_\_\_\_\_ Score: \_\_\_\_\_

# Evaluating Algebraic Expressions

Evaluate each algebraic expression for the given value of the variable.

1.  $a^2 - 15$  at  $a = 5$

\_\_\_\_\_

2.  $x(x + 12)$  at  $x = 4$

\_\_\_\_\_

3.  $\frac{d}{2} - 1$  at  $d = 16$

4.  $9 - b$  at  $b = 2$

\_\_\_\_\_

5.  $13 - v$  at  $v = 2$

6.  $\frac{x}{2} + 6$  at  $x = 1$

\_\_\_\_\_

7.  $(y + 2)^2$  at  $y = 4$

8.  $5(x + 9)$  at  $x = -14$

\_\_\_\_\_

9.  $\frac{9}{z} - 1$  at  $z = 9$

10.  $\frac{25}{r - 4}$  at  $r = 9$

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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# Evaluating Algebraic Expressions

## Answers

1.  $a^2 - 15$  at  $a = 5$

10

2.  $x(x + 12)$  at  $x = 4$

64

3.  $\frac{d}{2} - 1$  at  $d = 16$

7

4.  $9 - b$  at  $b = 2$

7

5.  $13 - v$  at  $v = 2$

6.  $\frac{x}{2} + 6$  at  $x = 1$

11

$\frac{13}{2}$

7.  $(y + 2)^2$  at  $y = 4$

8.  $5(x + 9)$  at  $x = -14$

36

-25

9.  $\frac{9}{z} - 1$  at  $z = 9$

10.  $\frac{25}{r - 4}$  at  $r = 9$

0

5