



## Evaluating Algebraic Expressions

Name \_\_\_\_\_

Score \_\_\_\_\_

EAE:10

Evaluate each algebraic expression.

1)  $x^2 + y$  at  $x = -1, y = 5$

2)  $\frac{2p}{q}$  at  $p = 3, q = 10$

3)  $u + 3v^2 - w$  at  $u = 11, v = -3, w = 40$

4)  $(a^2 + 4)(3 - b)$  at  $a = 2, b = -6$

5)  $m^3 - 4n^2 + 6$  at  $m = -5, n = -2$

6)  $\frac{x^2z}{4y}$  at  $x = 4, y = 10, z = 1$

7)  $ab + 8c - a^2d$  at  $a = 1, b = -6,$   
 $c = 4, d = -5$

8)  $q(r - s)$  at  $q = 12, r = 15, s = 11$



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## Answer key

EAE:10

Evaluate each algebraic expression.

1)  $x^2 + y$  at  $x = -1, y = 5$

**6**

2)  $\frac{2p}{q}$  at  $p = 3, q = 10$

**$\frac{3}{5}$**

3)  $u + 3v^2 - w$  at  $u = 11, v = -3, w = 40$

**-2**

4)  $(a^2 + 4)(3 - b)$  at  $a = 2, b = -6$

**72**

5)  $m^3 - 4n^2 + 6$  at  $m = -5, n = -2$

**-135**

6)  $\frac{x^2z}{4y}$  at  $x = 4, y = 10, z = 1$

**$\frac{2}{5}$**

7)  $ab + 8c - a^2d$  at  $a = 1, b = -6, c = 4, d = -5$

**31**

8)  $q(r - s)$  at  $q = 12, r = 15, s = 11$

**48**