

NAME _____

DATE _____

EVALUATE EXPRESSIONS: Worksheet 3

Evaluate the following algebraic expressions.

1) $z + 14$ if $z = 9$

2) $y + 22$ if $y = 9$

3) $x \div 7$ if $x = 42$

4) $t - 28$ if $t = 30$

5) $2y - 15$ if $y = 11$

6) $5w + 14$ if $w = 3$

7) $w^2 + 9y$ if $w = 7, y = 2$

8) $\frac{v}{7} + 3$ if $v = 70$

9) $4x^2 + 3y - z$ if $x = 4, y = 5, z = 10$

10) $x^3 + 5w - 4y$ if $x = 4, w = 2, y = 1$

KEY

EVALUATE EXPRESSIONS: Worksheet 3

Evaluate the following algebraic expressions.

1) $z + 14$ if $z = 9$ $z + 14 = 9 + 14 = 23$

2) $y + 22$ if $y = 9$ $y + 22 = 9 + 22 = 31$

3) $x \div 7$ if $x = 42$ $x \div 7 = 42 \div 7 = 6$

4) $t - 28$ if $t = 30$ $t - 28 = 30 - 28 = 2$

5) $2y - 15$ if $y = 11$ $2y - 15 = 2(11) - 15 = 22 - 15 = 7$

6) $5w + 14$ if $w = 3$ $5w + 14 = 5(3) + 14 = 15 + 14 = 29$

7) $w^2 + 9y$ if $w = 7, y = 2$ $w^2 + 9y = 7^2 + 9(2) = 49 + 18 = 67$

8) $\frac{v}{7} + 3$ if $v = 70$ $\frac{v}{7} + 3 = \frac{70}{7} + 3 = 10 + 3 = 13$

9) $4x^2 + 3y - z$ if $x = 4, y = 5, z = 10$ $4x^2 + 3y - z = 4(4)^2 + 3(5) - 10 =$
 $4(16) + 15 - 10 = 64 + 15 - 10 = 79 - 10 = 69$

10) $x^3 + 5w - 4y$ if $x = 4, w = 2, y = 1$ $x^3 + 5w - 4y = 4^3 + 5(2) - 4(1) =$
 $64 + 10 - 4 = 74 - 4 = 70$