

HW: ODDS ONLY

### Evaluating Variable Expressions

Evaluate each using the values given.

1)  $n^2 - m$ ; use  $m = 7$ , and  $n = 8$

$$\begin{array}{r} 8^2 - 7 \\ 64 - 7 \\ \hline 57 \end{array}$$

2)  $8(x - y)$ ; use  $x = 5$ , and  $y = 2$

3)  $yx \div 2$ ; use  $x = 7$ , and  $y = 2$

$$\begin{array}{r} 2(7) \div 2 \\ 14 \div 2 \\ \hline 7 \end{array}$$

4)  $m - n \div 4$ ; use  $m = 5$ , and  $n = 8$

5)  $x - y + 6$ ; use  $x = 6$ , and  $y = 1$

6)  $z + x^3$ ; use  $x = 1$ , and  $z = 19$

7)  $y + yx$ ; use  $x = 15$ , and  $y = 8$

8)  $q \div 6 + p$ ; use  $p = 10$ , and  $q = 12$

9)  $x + 8 - y$ ; use  $x = 20$ , and  $y = 17$

$$\begin{array}{r} 20 + 8 - 17 \\ \hline 28 - 17 \\ \hline 11 \end{array}$$

10)  $15 - (m + p)$ ; use  $m = 3$ , and  $p = 10$

11)  $10 - x + y \div 2$ ; use  $x = 5$ , and  $y = 2$

12)  $p - 2 + qp$ ; use  $p = 7$ , and  $q = 4$

13)  $zy + 4y$ ; use  $y = 5$ , and  $z = 2$

14)  $b(a + b) + a$ ; use  $a = 9$ , and  $b = 4$

15)  $p^2 \div 4 - m$ ; use  $m = 3$ , and  $p = 4$

$$\begin{array}{l} 4^2 \div 4 - 3 \\ \underline{16 \div 4 - 3} \\ 4 - 3 \end{array} \quad \boxed{1}$$

16)  $x(y \div 3)^2$ ; use  $x = 4$ , and  $y = 9$

17)  $4 + m + n - m$ ; use  $m = 4$ , and  $n = 9$

18)  $qp + q - p$ ; use  $p = 7$ , and  $q = 3$

19)  $mn \div 6 + 10$ ; use  $m = 7$ , and  $n = 6$

20)  $h + j(j - h)$ ; use  $h = 2$ , and  $j = 6$

21)  $(b - 1)^2 + a^2$ ; use  $a = 6$ , and  $b = 1$

22)  $y(x - (9 - 4y))$ ; use  $x = 4$ , and  $y = 2$

23)  $x - (x - (x - y^3))$ ; use  $x = 9$ , and  $y = 1$

24)  $j(h - 9)^3 + 2$ ; use  $h = 9$ , and  $j = 8$

$$\begin{array}{l} 9 - (9 - (9 - 1^3)) \\ 9 - (9 - (8)) \\ 9 - (1) \\ \boxed{8} \end{array}$$

HW: All of these

Kuta Software - Infinite Pre-Algebra

Name \_\_\_\_\_

### Simplifying Variable Expressions

Date \_\_\_\_\_ Period \_\_\_\_\_

Simplify each expression.

1)  $-3p + 6p$       $3p$

2)  $b - 3 + 6 - 2b$

$-1b + 3 \rightarrow 3 - 1b$  ok

3)  $7x - x$

4)  $7p - 10p$

5)  $-10v + 6v$

6)  $-9r + 10r$

7)  $9 + 5r - 9r$

8)  $1 - 3v + 10$  Expression  
 $-3v + 11$

9)  $5n + 9n$

10)  $4b + 6 - 4$

11)  $35n - 1 + 46$

12)  $-33v - 49v$

13)  $30n + 8n$

14)  $7x + 31x$

15)  $10x + 36 - 38x - 47$

16)  $-2(7 - n) + 4$   
 $-14 + 2n + 4$   
 $2n - 10$

17)  $-8(-5b + 7) + 5b$

18)  $-4p - (1 - 6p)$

19)  $4 - 5(-4n + 3)$

20)  $-7(k - 8) + 2k$

21)  $1 + 7(1 - 3b)$

22)  $3 - 8(7 - 5n)$   
 $3 - 56 + 40n$   
 $40n - 53$

