

NAME \_\_\_\_\_

Algebraic Expressions

Evaluate each expression if  $x = 12$ .

1.  $x + 7$

2.  $38 - x$

3.  $8x$

4.  $276 \div x$

5.  $x^2$

Evaluate each expression for the given values of the variables.

6.  $f - 9$  if  $f = 11$

$$\begin{array}{r} f - 9 \\ 11 - 9 \\ \hline 2 \end{array}$$

7.  $p + 16$  if  $p = 23$

8.  $25 - g$  if  $g = 12$

9.  $8w$  if  $w = 7$

10.  $9 + 2y$  if  $y = 8$

11.  $6x - 3$  if  $x = 4$

12.  $42n - 31$  if  $n = 4$

13.  $b \div 3 + b$  if  $b = 6$

14.  $5j + 7 + j$  if  $j = 14$

15.  $h^3$  if  $h = 5$

16.  $80 - a^2$  if  $a = 7$

17.  $y^4 + 3y$  if  $y = 2$

18.  $3m + m^2$  if  $m = 10$

19.  $d^5 - 12d$  if  $d = 2$

20.  $3k + k^2 + k \div 2$  if  $k = 4$

$$\begin{array}{r} 2 \\ \times 2 \\ \hline 4 \\ \times 2 \\ \hline 8 \\ \times 2 \\ \hline 16 \\ \times 2 \\ \hline 32 \end{array}$$

$$\begin{array}{r} d^5 - 12d \\ 2^5 - 12 \cdot 2 \\ 32 - 24 \\ \hline 8 \end{array}$$

$$\textcircled{12}$$

Every where  
you see a "d"  
substitute in  
a "2"