Name _____ Period_____ Date_____

Evaluating Variable Expressions

When evaluating variable expressions be sure to:

1. Replace each variable with the value given.
2. Simplify or do the arithmetic.

Examples: Evaluate each expression if $a = 9$ and $b = 27$.

$a+b=$	$b-a=$	$a-b=$	$3a+5b=$	$4a^2=$	$\frac{1}{2}(b+a)-5=$
$9+27=$	$27-9=$	$9-27=$	$3(9)+5(27)=$	$4(9)^2=$	$\frac{1}{2}(27+9)-5=$
36	18	-18	$27+135=$	$4(81)=$	$\frac{1}{2}(36)-5=$
			162	324	$18-5=$
					13

Evaluate each expression if $m = 6$ and $n = 18$.

1. $m+n$
2. $m-n$
3. $n-m$
4. mn
5. $\frac{m}{n}$
6. $\frac{n}{m}$
7. $\frac{m^2}{n}$
8. $2n-3m$

Evaluate each expression if $p = 4$ and $n = 5$.

9. $2p-n$
10. n^2p^2
11. $4(n+3)$
12. $2n(3p)$
13. $(n+p)^2$
14. $np-3$
15. $3np+7$
16. $\frac{p+8}{6}$