Math 6 - Unit 3: Expressions

End of Unit Study Guide

Name: _____

Class Period: 1 2 3 4 Date: _____

1) What is the number that multiplies a variable, such as the "9" in the term "9x"? _____	2) Write in exponential form: $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7$ _____	3) Write an expression for "*12 more than a number*." _____
4) Apply the distributive property to simplify the expression: $12(5x + 3)$ _____	5) Which expression is equivalent to **30x + 5**? A. $6(5x + 1)$ B. $5(6x + 5)$ C. $5(6x + 1)$ D. $30(x + 5)$	6) Write an expression for: "*nine less than x squared.*" _____
7) Identify each part of the expression *4n + 15*. 4 _____ n _____ 15 _____	8) Write an example of the commutative property.	9) Which expression is NOT equivalent to the others? A. $7(6 + 9)$ B. $42 + 63$ C. $7 \cdot 15$ D. $7(6) \cdot 7(9)$
10) Evaluate the expression $6s^2$ if s = 2. Show your work! _____	11) Write "4 cubed" in expanded form AND evaluate. _____ _____	12) What are like terms?

13) $(6^2 - 8 \div 4) + 27$ _____	14) Evaluate $n^2 + 4n + 4$ if $n = 7$. Show your work. _____	15) Simplify the expression: $7(n + 3) + 12n$ _____
16) Simplify the expression: $7n + 15n^2 + 13n - 14n^2$ _____	17) The expression **120 + 15*n*** can be used to find the total price for ***n* students** to take a field trip to the science museum. Find the cost if **n = 3 students** to visit the science museum. _____	18) A family of four (2 adults and 2 kids) is going to the pumpkin patch. Regular admission is $12 for adults and $4 for kids. How much will they pay to get in?

These are the skills you should understand to do well on the Unit 3 Test. Rate yourself on each one. This will help you figure out what to study!

Skill/Standard	 **I got this!!**	 **I understand this sometimes.**	 **I don't understand at all.**
Exponents			
Order of Operations			
Evaluating using Substitution			
Translating Words to Expressions			
Parts of Expressions			
Combining Like Terms			
Distributive Property			
Associative & Commutative Properties			