

## OL Math 6 - Unit 3: Expressions

### End of Unit Study Guide

Name: \_\_\_\_\_

Class Period: 1 2 3 4 Date: \_\_\_\_\_

1) What is the name of a number that multiplies a variable, such as the "9" in the term "9x"?

2) Evaluate:  $(6^2 - 8 \div 4) + 27$

3) Write in exponential form:  $7 \cdot 7 \cdot 7 \cdot 7 \cdot 7 =$

4) Evaluate  $3n^2 + 4n - n$  if  $n = 7$

5) Write an expression that represents "12 more than a number?"

6) Simplify this expression by combining like terms:  $7n + 15n^2 + 13n - 14n^2 - n + 17n$

7) Which expression is NOT equivalent to the others?

A)  $7(6 + 9)$       B)  $42 + 63$       C)  $7 \cdot 15$       D)  $7(6) \cdot 7(9)$

8) Apply the distributive property to simplify the expression:  $12(7x + 9)$

9) Evaluate "4 cubed."

10) The expression  $120 + 0.30m$  can be used to find the total price for renting a car, where  $m$  represents the number of miles driven. Determine the cost if  $m = 130$  miles in the rental car.

11) Factor to write an expression that is equivalent to  $30x + 5$ .

12) Translate into an algebraic expression: **nine more than the quotient of seven cubed and six.**

13) Which is the Coefficient?  $4n + 15$

- A) 4                      B)  $n$                       C) 15

14) Which is the Constant?  $4n + 15$

- A) 4                      B)  $n$                       C) 15

15) Which is the Variable?  $4n + 15$

- A) 4                      B)  $n$                       C) 15

16) Write and example of the **commutative property**?

17) Simplify the expression  $7(n + 3) + 12n - 10$

18) What are like terms?