**Math 6 - Unit 3: Expressions** Name:

*End of Unit Study Guide*

 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: (62 – 8 ÷ 4) + 27
3. Write in exponential form: 7 • 7 • 7 • 7 • 7 =
4. Evaluate 3*n*² + 4*n* -*n* if *n* = 7
5. Write an expression that represents “12 more than a number?”
6. Simplify this expression by combining like terms: 7*n* + 15*n* 2 + 13*n* – 14*n* 2 – n + 17n
7. The cost of seeing a movie is $8.25 for admission, plus an additional $2.25 for each snack purchased. Write an expression to represent the cost of seeing a movie and purchasing *s* snacks.
8. Which expression is NOT equivalent to the others?

A) 7(6 + 9) B) 42 + 63 C) 7 • 15 D) 7(6) • 7(9)

1. Apply the distributive property to simplify the expression: 12(17*x* + 19)
2. If the formula for the area of a triangle is $\frac{1}{2}bh$, find the area of a triangle with a base of 15 and a height of 16.
3. Evaluate “4 cubed.”
4. The expression **120 + 0.30*m*** 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.
5. Factor to write an expression that is equivalent to **30x + 5**.
6. Translate into an algebraic expression: **nine more than the quotient of seven cubed and six**.
7. Melissa and 4 of her friends rent a movie for $5 and buy *n* medium drinks for $3 each. If they split these costs evenly, write an expression that can be used to find the amount each girl should pay?
8. Write and example of the **commutative property**?
9. Label the parts of the expression: 4n + 15
10. 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?
11. Simplify the expression 7(n + 3) + 12n -10
12. What are like terms?