Name: _____

Date: _____

Hour: _____

Homework 1.3: Variables and Equations

1.) Define the following vocabulary words: variable, expression, and equation.

2.) Is *4y* an expression or a variable? How do you know?

For numbers 3- 6, use this information. If pencils cost 20 cents each, find the cost.

3.) 0 pencils

4.) 4 pencils

5.) 10 pencils

6.) *p* pencils

For numbers 7- 10, identify the pattern and find the next three terms.

7.) 6, 8, 10, 12, 14, _____, _____, _____.

8.) 15, 25, 35, 45, 55, _____, _____, _____.

9.) 100, 90, 80, 70, 60, _____, _____, _____.

10.) 52, 48, 44, 40, 36, _____, _____, _____.

Complete the table for numbers 11-14. Substitute 1, 2, 3, 4, and 5 for the variables in the expressions below.

11.) $4x$

x	1	2	3	4	5
$4x$					

12.) $5y$

y	1	2	3	4	5
$5y$					

13.) $7s + 4$

s	1	2	3	4	5
$7s + 4$					

14.) $3n$

n	1	2	3	4	5
$3n$					

15.) If tickets for a concert cost $11 each, how many tickets can you buy with $126?

16.) If tickets for a football game cost $9 each, how many can you buy with $135?

17.) How many $5 movie tickets can you buy with $32?

18.) If 5 people split the cost of a $32 birthday gift equally, how much should each person pay?