Pre-College Algebra Name _____

1.1-1.2 Review Per _____ Date _____

1. Find the place value of each digit. 26,915

a. 1 b. 2 c. 9 d. 5 e. 6

2. Find the place value of each digit. 9,430,286,167

a. 6 b. 4 c. 9 d. 0

3. Name the number using words, 6,104.

4. Name the number using words, 85,620,435.

5. Write the number as a whole number using digits.
Ninety million, four hundred twenty-five thousand, sixteen

6. Write the number as a whole number using digits.
One billion, forty-three million, nine hundred twenty-two thousand, three hundred eleven

7. Round the number 3,972,849 to the nearest

a. hundred b. ten thousand c. million

8. Use the divisibility test to determine whether each number is divisible by 2, by 3, by 5, by 6, and by 10. Justify each answer.

a. 168 b. 1080 c. 13,757

9. Find the prime factorization for each of the following numbers.

a. 115 b. 391 c. 1560 d. 2475

10. Find the least common multiple using prime factorization.

a. 60, 84 b. 24, 30

11. Translate from algebra to English

a. 25-7 b. $3 \leq 20 \div 4$ c. $a \neq 7 \cdot 4$ d. $3n = 24$

12. Simplify:

a. $6 + \frac{10}{2} + 2$ b. $33 \div (3 + 8) \cdot 2$ c. $4^2 + 5^2$

13. Simplify:

a. $7p + 6 + 5p - 4$

b. $8x + 7 + 4x - 5$

14. Translate an English Phrases to and Algebraic Expression.

a. the sum 8 and 12

b. the difference of x and 3

c. the product of 6 and y

d. Adele bought a skirt and a blouse. The skirt cost $15 more than the blouse. Let b represent the cost of the blouse. Write the expression for the cost of the skirt.