Homework: Rules of Divisibility Algebra 1 Kitt

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period:\_\_\_\_\_\_

**Directions**: Use your notes to help answer the following questions concerning the Rules of Divisibility.

1. What do even numbers end with?
2. Are all numbers with all odd digits except for the last digit divisible by 2?
3. Prove that 2,451 is divisible by 3 by working out the steps.
4. Provide an example of a number that is divisible by 4 with seven digits.
5. Describe a number divisible by 5.
6. True/False, An odd number divisible by 3 is automatically divisible by 6.
7. If a number is divisible by 8, what else is that number automatically divisible by?
8. Provide a number divisible by 9 with five digits.
9. True/False. If a number is divisible by 9, then it is divisible by 3.
10. What would it take for a number to be divisible by 6 and 9? Explain your answer.
11. Prove that the number 59, 206 is divisible by 7, until you break the number down into a two digit number.