Name _____

# Divisibility Rule

1) Find all possible values of a for which the number 7a3 is divisible by 3. Also find each such number.

   a = 2, 5, 8

   The required numbers are 723, 753 and 783

2) Find all possible values of a for which the number 320b is divisible by 3. Also find each such number.

   b = 1, 4, 7

   The required numbers are 3201, 3204 and 3207

3) Find all possible values of a for which the number 53c1 is divisible by 3. Also find each such number.

   c = 0, 3, 6, 9

   The required numbers are 5301, 5331, 5361 and 5391

4) Find all possible values of a for which the number d806 is divisible by 9. Also find each such number.

   d = 4

   The required number is 4806

5) Find all possible values of a for which the number 471e8 is divisible by 9. Also find each such number.

   e = 7

   The required number is 47178

6) Find all possible values of a for which the number 51f3 is divisible by 9. Also find each such number.

   f = 0, 9

   The required numbers are 5103 and 5193