

MAD 3105 DM2 **Quiz 10x** 3 Apr 1996 Name: _____

Show **ALL** work for credit; be neat; and use only **ONE** side of each page of paper.

1 & 2. How many positive integers less than 1,000,000 are there

A. So that each of its six digits is odd?

B. So that it is an re-arrangement of the digits 111225?

C. Such that the sum of the digits is 9?

D. Such that the sum of the digits is 12?

E. Such that the sum of the digits is 12 and none of the 6-digits is zero?