

**Attendance Quiz # 12 for Dr. Z.'s Number Theory**

**NAME:** (print!) \_\_\_\_\_

**E-MAIL ADDRESS:** (print!) \_\_\_\_\_

**1.** Using divisibility tests, determine which of the following integers (written in the usual, base 10, way) is divisible by (i) 9 (ii) 11 (iii) 7.

**a.** 683444

**b.** 17888

**c.** 139135

**2.** Using the Perpetual calendar algorithm, find out on what day of the week is going to be Oct. 17, 5000.

**Hint:** Find out how many leap years will be from now until 5000.