Problem of the Week #3

Directions: Solve the following problem. The explanation must be on a separate sheet of paper. Show all work on one to two pages. Your explanation of your solution must be as thorough as possible. This problem will be due on 10/19/2004 and is worth 20 points.

How many different ways should the digits of a digital alarm clock add up to 10? (Example: 10:45: 1 + 0 + 4 + 5 = 10) Use a standard digital clock which repeats every 12 hours.