

# Math175 - Discrete Mathematics - Spring 2005

## Quiz #7, May 2, 2005

In the following problems you are required to show all your work and provide the necessary explanations everywhere to get full credit.

1. A password consists of 4 digits (each digit can be 0 through 9). How many such passwords have at least one digit repeated?

2. Suppose three members of a group of 9 insist on working together — any team must either contain all of them or neither. How many distinct 6-person teams can be formed?