

Quiz 4

Question 1 (2 / 2 pts)

- a) The number of 3-digit positive integer which does not contain digit 0 is [].
- a) The number of 3-digit positive integer which does not contain two consecutive digits 1s is [].
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Question 2 (2 / 2 pts)

The number of integers from 1 through 1,000 which are multiples of 4 or multiples of 7 is [].

Question 3 (2 / 2 pts)

A high school chess team has 13 members.

- a. The number of ways that the coach select 8 members to go on a chess tournament is [].
- b. Given that the team has 7 males and 6 females. The number of ways that the coach select 4 male and 4 female members to go on a chess tournament is [].
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Question 4 (2 / 2 pts)

- a. How many different strings can be formed by permuting five letters H, A, N, O, I
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- b. How many different strings can be formed by permuting five letters H, A, N, O, I so that the letters A and I do not stand next to each other (the string does not contain AI or IA)
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Question 5 (2 / 2 pts)

The coefficient of x^5y^7 in the expansion of $(x - 2y)^{12}$ is [].