MS121 Discrete Mathematics, Tutorial 10

1. How many different distributions of a's, b's and c's are there among the 27 strings of length 3 in the letters a, b and c?

2. In how many different ways can 7 identical objects be distributed between 3 ordered boxes, box 1, box 2, and box 3? For how many of these distributions is there at least one object in each box?

3. A group of 20 students are to be assigned to 4 teams of 5, a red team , a blue team, a green team and a yellow team. In how many ways can this be done?

4. Compute the coefficient of x^2y^3 in the expansion of $(x + y + 1)^7$.