

### Part 1

Probability  $P(A \text{ or } B)$ ,  $P(A \text{ and } B)$

There are M&M candies in a jar: Red (R), Blue (B) and Yellow (Y).

Numbers of each candy is given for you in the table below.

You should use one line in the table that has the number of your position on the class roster.

The class roster is posted in Discussion Forum 'Class Roster'.

If you have any questions, post it in 'Ask the Professor' forum.

Use your numbers to calculate

1a) probability that randomly taken one candy is blue or red:  $P(B \text{ or } R)$

1b) probability that out of randomly taken 2 candies from the jar

first candy will be Red and second candy will be Red again:  $P(\text{first R and second Red})$ .

Keep in mind that in case b), after you take the first candy, there will be one less candies in the box.

### Part 2

Calculate Permutations  $P(N,X)$  and Combinations  $C(N,X)$  for N and X assigned for you in the table.

Your position in the class roster	R	B	Y
1.	3	3	3
2.	4	3	3
3.	4	4	4
4.	5	4	4
5.	5	5	5
6.	6	5	5
7.	6	6	6
8.	7	6	6
9.	7	7	7
10.	8	7	7
11.	8	8	8
12.	9	8	8
13.	9	9	9
14.	10	9	9
15.	10	10	10
16.	12	11	11
17.	12	12	12
18.	10	5	5
19.	10	6	6
20.	9	10	11
21.	11	9	10
22.	8	5	7
23.	12	10	8
24.	7	5	4
25.	10	6	4

N	X
5	2
5	3
6	2
6	3
6	4
7	2
7	3
7	4
8	2
8	3
8	4
9	2
9	3
9	4
10	2
10	5
11	2
11	3
11	4
11	5
12	3
12	4
10	3
8	5
12	5