

PROBLEMS

1. The following table shows the results of a survey of 100 people.



Gender	Marital Status	Number of People
Male	Single	20
Male	Married	30
Female	Single	30
Female	Married	20

2. A box contains 10 balls, 3 of which are red and 7 are blue. Two balls are drawn at random without replacement. Find the probability that the two balls are of the same color.

3. A box contains 10 balls, 3 of which are red and 7 are blue. Two balls are drawn at random without replacement. Find the probability that the two balls are of different colors.

4. A box contains 10 balls, 3 of which are red and 7 are blue. Two balls are drawn at random without replacement. Find the probability that the first ball is red and the second ball is blue.

Event	Probability
Two balls of the same color	
Two balls of different colors	
First ball red and second ball blue	