Assignment 10. Sample Spaces and Probability

Work individually. Put your answer on a Word document.

Sample Spaces

A sample space is the set of all possible outcomes.

- 1. Find the sample space for the gender of the children if a family has three children. Use B for boy and G for girl.
- 2. Find the sample space for rolling two dice.
- 3. Find the sample space for drawing one card from an ordinary deck of cards.

Classical Probability

- 4. If a family has three children, find the probability that
- two of the three children are girls.
- At least one boy
- At most two boy
- All the children have the same sex
- 5. Drawing a card. A card is drawn from an ordinary deck. Find these probabilities.
- Getting a black 10
- Getting the 6 of clubs
- Getting a 3 or a diamond
- Getting a 3 or a 6
- 6. Rolling a Die. If a die is rolled one time, find these probabilities
- Getting a 2
- Getting a number greater than 6
- Getting an odd number
- Getting a 4 or an odd number
- Getting a number less than 7
- Getting a number greater than or equal to 3
- Getting a number greater than 2 and an even number
- 7. Rolling Two Dice. If two dice are rolled one time, find the probability of getting these results.
- A sum of 9
- Doubles
- A sum greater than or equal to 10
- A sum less than 10