**Create a Card or Board Game**

You have been hired by Hasbro, a company that specializes in board game creation, to develop a new card or board game. They are looking for a creative, strategy-based game where players who use a solid base of mathematics will have an edge. Your game can be a new idea, or you may create a variation on a current game. Note that some games are more luck-based (Yahtzee, Monopoly, etc.) while others are more strategy-based (Cribbage, Risk, etc.) than others. It is possible to change a luck-based game into a strategy-based game or vice versa by creating new rules or variations.

Your card or board game must consist of the following:

**1. Rules (15 marks)**

* How many players, who starts the game, how to score points, how do you win, etc.
* Make sure the rules are quite detailed

**2. Game Board (20 marks)**

* Design and create a game board for your game
* Include game cards, player pieces, etc.

**3. Mathematical Analysis (15 marks)**

* Outline the strategy in your game – how do you win, are there better moves to make, etc.
* Determine the mathematical probabilities involved in your game – give examples of common situations that occur in your game