**Template for Probability Assignment**

1. **Opening Statement**

* Based on your probability before beginning the game, write a statement to your cousin 0about whether you think he/she has a ‘good chance’ of winning at least $150,000.
* Include in your statement what you think is ‘more likely’ or ‘less likely’ to happen if your cousin goes on the show wanting to win at least $150,000.
* Give reasons (fractions, decimals, percentages) to support your statements.
* Represent your ideas on a ‘Probability Spectrum’.

1. **Theoretical Probability**

* Write a statement which identifies the theoretical probability that the case you chose at the start of the game contains a value greater than $150,000. Describe this in as many ways as possible (words, fractions, decimals, percentages).

1. **Graph 1 (case-by-case probability)**

* Create a graph that shows the case by case probability that you will win $150,000 or more.

1. **Graph 2 (games played)**

* Graph the amount you won in each game.

1. **Final Statement**

* How does the theoretical probability of winning $150,000 or more, compare to your experimental probability? Do your results surprise you?
* Write one final statement to your cousin regarding his chances of winning at least $150,000 on ‘Deal or No Deal’.