Crazy Choices Exploration Questions

1. For "Type of Game" select Dice. Pick different numbers (1-6) and different amounts of numbers (1-5) as the winning numbers for each game. Then, find the theoretical probabilities for each of the three games that you created. How did you find the theoretical probability and what is it for each of the three games?

2. Now run 10 trials with the theoretical probabilities that you entered. Are the experimental probabilities close to the theoretical probabilities? How close or far away are they?

3. Next, run 1,000 trials with the same theoretical probabilities. Are these experimental probabilities closer to the theoretical probabilities than those found with 10 trials? Why do think that is?