Probability Worksheet

1. If the blue car is allowed to move on rolls of 2, 5, and 6 and the red car is allowed to move on rolls of 1, 3, and 4 which car is more likely to finish a 3 step race first?

   a. What is the theoretical probability the red car will finish first? _____
   b. What is the experimental probability of the red car finishing first? _____
   c. What is the theoretical probability that the blue car will finish first? _____
   d. What is the experimental probability of the blue car finishing first? _____
   Explain your answer

2. If the red car is allowed to move on rolls of 1 and 6 and the blue car is allowed to move on rolls of 2, 3, 4, and 5 which car is more likely to finish a 1 step race first?

   a. What is the theoretical probability the red car will finish first? _____
   b. What is the experimental probability of the red car finishing first? _____
   c. What is the theoretical probability that the blue car will finish first? _____
   d. What is the experimental probability of the blue car finishing first? _____
   Label and Show Your Work

3. If the blue car is allowed to move on rolls of 3 and the red car is allowed to move on rolls of 1, 2, 4, 5, and 6 which car is more likely to finish a 1 step race first?

      a. What is the theoretical probability the red car will finish first? _____

      b. What is the experimental probability of the red car finishing first? _____

      c. What is the theoretical probability that the blue car will finish first? _____

      d. What is the experimental probability of the blue car finishing first? _____

      Label and Show Your Work

4. If the red car is allowed to move on rolls of 1 and the blue car is allowed to move on rolls of 2, 3, 4, 5, and 6 which car is more likely to finish a 1 step race first?

      a. What is the theoretical probability the red car will finish first? _____

      b. What is the experimental probability of the red car finishing first? _____

      c. What is the theoretical probability that the blue car will finish first? _____

      d. What is the experimental probability of the blue car finishing first? _____

      Label and Show Your Work