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