Simple Probability

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class Period \_\_\_\_ Date \_\_/\_\_/\_\_\_\_

1. A softball player got a hit in 20 of her last 50 times at bat. What is the probability that she will get a hit in her next time at bat? \_\_\_\_\_\_\_\_\_\_\_
2. What is the chance you will roll a five the next time you roll a one die? \_\_\_\_\_\_\_\_
3. What is the chance you will get a sum of five, when you roll two dice? \_\_\_\_\_\_\_\_\_\_\_\_
4. What is the chance you will get an odd number when you roll two dice? \_\_\_\_\_\_\_\_\_\_\_
5. What is the chance you will get a number greater than 30 when you roll two dice? \_\_\_\_\_\_\_\_\_
6. What is the theoretical probability of getting a 2 or 3 when rolling a standard dice? \_\_\_\_\_\_\_\_\_\_
7. A bag contains 36 red blocks, 48 green blocks, 22 yellow blocks, and 19 purple blocks. You pick one block from the bag a random

7A. P(Green) \_\_\_\_\_\_\_\_\_\_\_

7B. P(Purple) \_\_\_\_\_\_\_\_\_\_\_

7C. P(not Yellow) \_\_\_\_\_\_\_\_\_\_\_

7D. P(green or Yellow) \_\_\_\_\_\_\_\_\_\_

7E. P(Yellow or not Green) \_\_\_\_\_\_\_\_\_\_\_

7F. P(Purple or not Red) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Draw a Venn diagram to complete the problems. In a class of 147 students, 95 are taking math (M), 73 are taking Science (S), and 52 are taking both math and science. One students is picked at random. Find each probability.

8A. P(taking math or science or both) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8B. P(not taking math) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8C. P(taking math but not science) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

8D. P(taking neither math nor science) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. A lottery has 53 numbers from which five are drawn at random. Each number can only be drawn once. What is the probability of your lottery ticket matching all five numbers in any order.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Out of four games team A has won one game and team B has won three games in the championship series. What is the experimental probability that team A wins the next game? \_\_\_\_\_\_\_\_\_\_\_\_ That team B wins the next game? \_\_\_\_\_\_\_\_\_\_