Probability review questions for Quiz Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. If a quarter is tossed 4 times, what is the probability of the coin landing heads up on all 4 tosses? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Cam has 4 red apples and 1 green apple in a bowl. He chooses an apple and gives it to his sister. What is the probability that he will give his sister a green apple? \_\_\_\_\_\_\_\_\_\_
3. There are 18 players on your swim team. Your coach selects two players to lead drills before practice. What is the probability you are one of the two chosen to lead drills today\_\_\_\_\_\_\_\_\_\_\_
4. A restaurant has a breakfast menu with the choices in the table. What is the probability that bacon and pancakes are selected? \_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| **Meat** | **Side** |
| Sausage  Ham  Bacon | Grits  Pancake  Hashbrowns |

1. Jane has to walk her dogs. Karen said she would help her walk them if she flipped a coin 3 times and landed on tails all 3 times. What is the probability Jane will flip the coin and get tails all 3 times? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Jasmine has 3 vowels and 9 consonants written on note cards. She selects one card. What is the probability she selects a card with a consonant on it? \_\_\_\_\_\_\_\_\_\_\_\_
3. Kyle places cookies in a jar. There are 5 chocolate, 4 oatmeal, 5 pecan, and 6 snicker doodles. If he chooses 1 cookie at random from the jar, what is the probability he will choose an oatmeal cookie? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. There are 13 girls and 7 boys in Mrs. Garrett’s class. She will randomly select 1 student to clean the tables at lunch. What is the probability she will choose a boy to wash the tables? \_\_\_\_\_\_\_\_\_\_
5. Toss a coin twice. What is the P(all heads)?
6. Analyze each event. For which event does the theoretical probability match the experimental results?
7. Flipping a dime

|  |  |
| --- | --- |
| **Heads up** | **Tails up** |
| 6 | 3 |

b. Shooting a basket

|  |  |
| --- | --- |
| **Made It** | **Missed It** |
| 6 | 6 |

c. Spinning a spinner with 4 parts number A-D

|  |  |  |  |
| --- | --- | --- | --- |
| **A** | **B** | **C** | **D** |
| 3 | 6 | 1 | 2 |

1. Pam will roll a fair number cube and draw a marble out of a bag. There are 2 purple marbles and 6 yellow marbles in a bag. What is the probability that the cube will land on a number less than 3 and the marble will be purple? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The chance of rain on Monday is 20%. The chance of rain on Tuesday is 30%. What is the probability that it will rain on both days? Write your answer as a percent. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. Mark, Tom, Will, and Devin clean houses for income during the summer. They use the spinners below to assign chores at each house they clean. If they spin the spinner once, what is the theoretical probability that “Devin” will be “ironing clothes”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Mop Wash

Iron Dust

Mark Tom

Devin Will

1. Rachel has a box of cards. There are 6 red, 3 purple and 2 yellow cards. She draws a card, replaces it, and draws a second card. What is the probability that both will be purple? \_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Without looking, Jody will remove a marble, record its color then put it back in the bag. The probability of drawing a striped marble is 1/3. What is the probability that the first 3 marbles Jody removes will be striped? \_\_\_\_\_\_\_\_\_\_\_\_
3. Sean has a fair cube. He rolls it twice. What is the probability if Sean rolls a 4 and an even number? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. There are 2 spinners at the carnival divided into 6 equal sections. Each spinner is spun one time. Spinner 1 is numbered 1 through 6. Spinner 2 has the colors red, orange, yellow, blue, green, and violet on it. What is the probability that the arrow on the first spinner will land on a space with an even number, and the second spinner will land on yellow? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
5. What is the probability of flipping 5 fair coins and getting all tails? \_\_\_\_\_\_\_\_\_\_\_\_
6. Jamie went to yard sale and found some items for his new college apartment. 4 different types of couches and 3 different kitchen tables were available. How many different choices are possible if he intends to buy 1 living room piece and one kitchen item?\_\_\_\_\_\_\_\_\_\_\_\_
7. The table below shows the number of different types of movies downloaded in the Murphy household last year.

|  |  |
| --- | --- |
| **Type of movie** | **Number of downloads** |
| Science Fiction | 10 |
| Romantic | 8 |
| Comedy | 12 |
| Action | 15 |
| Documentary | 5 |

Based on the table, what is the experimental probability that the next movie chosen will be comedy? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_