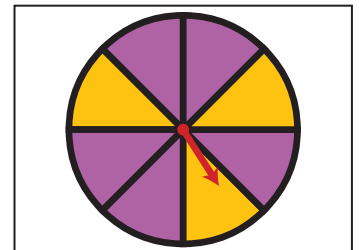NAME: _____

THEORETICAL PROBABILITY

1. **Landon has a bag of 20 marbles. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles. What is the probability of choosing a red marble?**

    a) 6/20   **b)** 12/20   **c)** 2/20

2. **Predict whether the following outcome is likely or unlikely to occur:** *rolling a number greater than 1 on a standard 6-sided die*

    a) likely   **b)** unlikely

3. **Predict whether the following outcome is likely or unlikely to occur:** *rolling a number less than 2 on a standard 6-sided die*

    a) likely   **b)** unlikely

4. **Landon has a bag of 20 marbles. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles. What is the probability of choosing an orange marble?**

    a) 12/20   **b)** 2/20   **c)** 6/20

5. **What is the probability for the following events:** *landing on the color purple*

    a) 5/8

    b) 1/3

    c) 3/5

THEORETICAL PROBABILITY

6. How many possible outcomes are there for the following events: *spin the spinner and flip a coin*

a) 8 outcomes

b) 12 outcomes

c) 10 outcomes

7. Landon has a bag of 20 marbles. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles. What is the probability of choosing a yellow marble?
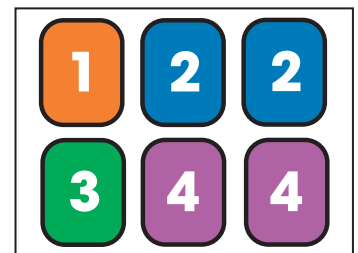
a) 2/20   b) 6/20   c) 12/20

8. Predict whether the following outcome is likely or unlikely to occur: *a 30% chance of rain*

a) likely   b) unlikely

9. What is the probability for the following events: *choosing the number 2*

a) 3/6

b) 1/6

c) 2/6

10. Landon has a bag of 20 marbles. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles. What is the probability of choosing an orange or yellow marble?
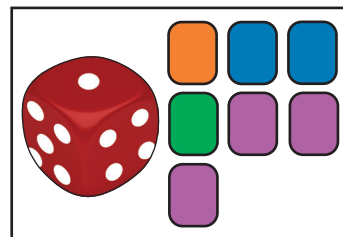
a) 70%   b) 90%   c) 40%

THEORETICAL PROBABILITY

11. **Predict whether the following outcome is likely or unlikely to occur:** *a 75% chance of sunshine*

    a) likely   **b)** unlikely

12. **How many possible outcomes are there for the following events:** *roll a die and choose a card*

    a) 13 outcomes
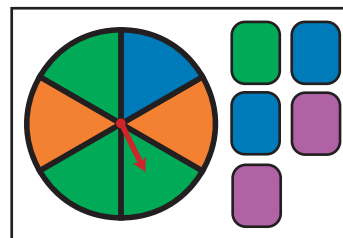
    b) 55 outcomes

    c) 42 outcomes

13. **Landon has a bag of 20 marbles. He has 12 red marbles, 6 orange marbles, and 2 yellow marbles. What is the probability of choosing an orange or red marble?**

    a) 70%   **b)** 90%   **c)** 40%

14. **What is the probability for the following events:** *landing on the color orange or choosing a green card*

    a) 3/11

    b) 2/11

    c) 1/11

15. **Predict whether the following outcome is likely or unlikely to occur:** *a 3 out of 5 chance of winning the tournament*

    a) likely   **b)** unlikely