

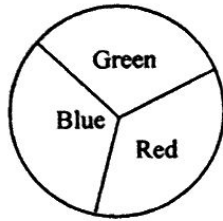
ML #1 - Practice - Probability

Name: _____

Date: _____

Period: _____

- 1) You spin the spinner below once. What is the probability of landing on the color blue?



- 2) You have a bag of marbles containing 8 red marbles, 4 yellow marbles, and 12 blue marbles. If you randomly pick a marble from the bag, what is the probability that you will get a blue marble?

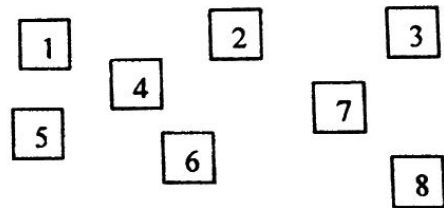
- 3) Ms. Namatovu has 7 pieces of candy in her purse. 4 are jolly ranchers and 3 are snickers. If she reaches in her purse without looking, what is the probability that she will grab a jolly rancher? Express as a fraction and a percent.

- 4) You have a number of coins in your pocket, including nickels, dimes and quarters. The probability of picking a dime is $\frac{2}{5}$. The probability of picking a quarter is $\frac{3}{10}$. What is the probability of picking a nickel?

- 5) You roll a number cube 20 times, and the number eight appears 5 times. What is the experimental probability of getting an 8?

- 6) A die is rolled 12 times, and 6 comes up 4 times. How does the experimental probability compare with the theoretical probability?

- 7) The eight chips below are placed in a bag and then mixed up.



What is the probability that Rachel will pick an even numbered chip?

- 8) You flip a coin. How likely is it that the coin will land on Heads rather than Tails?

- A. Certain
- B. Likely
- C. Equally likely
- D. Unlikely
- E. Impossible

9) A bag of M & M's contains 16 blue, 25 red, 5 yellow, and 4 green. What is the probability that Scout will eat a yellow M & M?

- a. About 20 %
- b. About 5 %
- c. About 6 %
- d. About 10 %

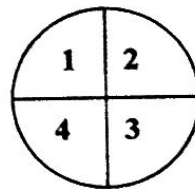
10.) A drawer of socks contains 28 socks, 12 of which are black and 16 are blue. What is the **probability of pulling a black sock** out of the drawer? Express as a fraction and a percent.

11.) Lakira has a number cube with 1- 6. If she rolls the cube 72 times, how many times would she expect to get a 4?

12.) Shontya was early to class 15 out of 20 times. Based on that rate, what is the probability that she will be early to class the next time?

- a. 15%
- b. 20%
- c. 75%
- d. 90%

13.) Using the spinner below, if you spin the spinner 48 times, how many times can you expect it to land on an even number?

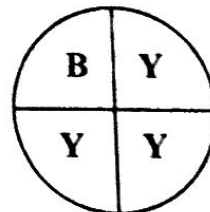


14.) Zeke has a spinner with the numbers 1-10 on it. If he spins the spinner 80 times, how many times would he predict landing on the number 7?

15.) Greg Fishel predicted rain correctly 9 out of 10 times. Based on that rate, what is the probability that he will be right next time?

- a. 9 %
- b. 10 %
- c. 75%
- d. 90%

16.) Using the spinner below, how likely are you to spin a yellow rather than a blue?



- A. Certain
- B. Likely
- C. Equally likely
- D. Unlikely
- E. Impossible