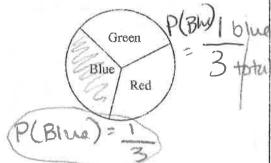
## ML #1 - Practice - Probability

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 marble from 14 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.

If the best of coins in your pocket, and adapt is the land and quarters. The probability of bicking a quarter is 3/10, what is the probability of picking a nickel?

$$P(Nickel) = \frac{3}{10}$$

Name:	Keu	
Date:		
Period:		

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

$$P(8) = \frac{5}{20} = \frac{1}{4}$$
 $P(8) = \frac{1}{4}$ 

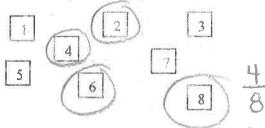
6) A die is rolled 12 times, and 6 comes up 4 times. How does the experimental probability compare with the theoretical probability? Exp. = P(4) = \frac{1}{3} = 33%

Theo = P(6) = 1/6 = 1770

Experimental probability

was about 1670 higher than theo prob.

 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

P(heads)= 1

B. Likely
C. Equally likely

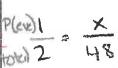
D. Unlikely

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 %



$$\frac{2 \times = 48}{2} \times = 24$$

number?

d About 10 % 5

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.

$$\frac{12}{28} = \frac{3}{7}$$

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?

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?

14.) Zeke has a spinner with the numbers

times, how many times would he

predict landing on the number 7?

1-10 on it. If he spins the spinner 80

13.) Using the spinner below, if you spin

the spinner 48 times, how many times

tomes

can you expect it to land on an even

$$P(4) \frac{1}{6} = \frac{x}{12}$$
 (12 times)

a. 9% 90%

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?

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

Certain B) Likely

d. 90%

C. Equally likely

D. Unlikely

E. Impossible