

1. Something that is unlikely to happen has a probability of between

- A 0 and 0.5
- B 0.5 and 1
- C 1 and 2
- D -1 and 0

2. Something that is likely to happen has a probability of between

- A 0 and 0.5
- B 0.5 and 1
- C 1 and 2
- D -1 and 0

3. What is the probability of rolling a 4 with a die? - 1 dice

- A  $\frac{4}{6}$
- B 1
- C 0
- D  $\frac{1}{6}$



4. What is the probability of getting heads when you toss a coin?

- A 1
- B 0.5
- C 0.2
- D 0.33



5. What is the probability of rolling an odd number with a die? - one dice

- A one sixth
- B one third
- C one fifth
- D one half

6. A coin is thrown 3 times. It lands on heads twice & tails once. What are the odds that the coin will land on tails the next throw?

- A 1
- B one half
- C 0
- D impossible to determine



7. A bag contains 7 buttons. Three of them are green. What is the probability of picking a green button from the bag?

- A One seventh
- B Two sevenths
- C Three sevenths
- D 1.5 / 3

8. Something that has an even chance of happening has a probability of

- A 100%
- B 50%
- C 0%
- D less than 50% most of the time

9. A bag contains just 5 buttons, all of which are blue. What are the odds of picking a red button from the bag

- A 0
- B 0.5
- C 1
- D not likely



10. A bag contains 4 white buttons. How many black buttons must be added so there is an even chance of picking a white button?

- A 4
- B 8
- C 0
- D 1/2 the number of white buttons

11. A six sided die is tossed twice in a row. What is the chance of getting a 6, then getting another 6?

- A 1/6
- B 1/36
- C 1/12
- D 2/12

12. A six sided die is tossed twice in a row. What is the chance of getting a 3, then getting another 3?

- A 16.66%
- B 12%
- C 8.33%
- D 2.77%



13. Define random.

- A A choice or pick in which each outcome is equally likely.
- B A choice or pick in which you get the desired outcome.
- C A choice or pick in which you do not care about the outcome.
- D Go ask Farmer Brown.

14. Define probability.

- A Measuring outcomes in games of chance.
- B The chance that something will happen.
- C Recording percentages of events that occur.
- D Developing statistics.

15. Define mode.

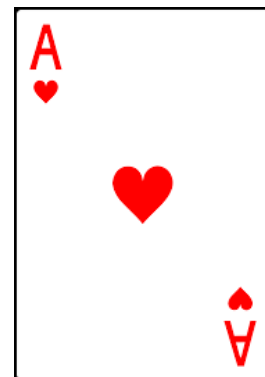
- A It's a synonym for range. The difference between the lowest and highest value in the data set.
- B The most likely recorded results in a frequency table.
- C The value that occurs most frequently in a set of data. There can be more than one mode or no mode.
- D The average in a data set.

16. What are the odds of getting heads three times consecutively when tossing a coin only three times?

- A  $3/9$  or  $1/3$
- B  $1/6$
- C  $1/4$
- D  $1/8$

17. With a set of cards what is the chance of getting a card that is hearts but not an ace?

- A  $1/4$
- B  $13/52$
- C  $3/13$
- D  $13/12$



18. What is the probability of picking a vowel from a bag containing the letters to the word MILLION?

- A 0.429
- B 0.5
- C 0.29
- D The crystal ball is cloudy. Please come back tomorrow.



19. Natsuko has been practicing at darts. She hits the bulls-eye 3 out of 7 times. Estimate the probability of her not hitting a bulls-eye.

- A Even odds
- B Some of the time
- C Most likely
- D Not likely

20. If your batting average is 0.400 in baseball. How many hits would you expect to get in 20 at-bats?

- A 4
- B 8
- C 12
- D 10

