

Probability

A. Choose the correct answer:

1. The probability of an event that is sure to happen is.

- a) 0
- b) 1
- c) $\frac{1}{2}$
- d) Cannot be predicted

2. If a coin is tossed once, what is the probability of getting a head.

- a) $\frac{1}{2}$
- b) $\frac{1}{3}$
- c) $\frac{1}{4}$
- d) 1

3. The probability of an impossible event is.

- a) 0
- b) 1
- c) $\frac{1}{2}$
- d) Not defined

4. When a die is rolled once, what is the probability of getting an even number.

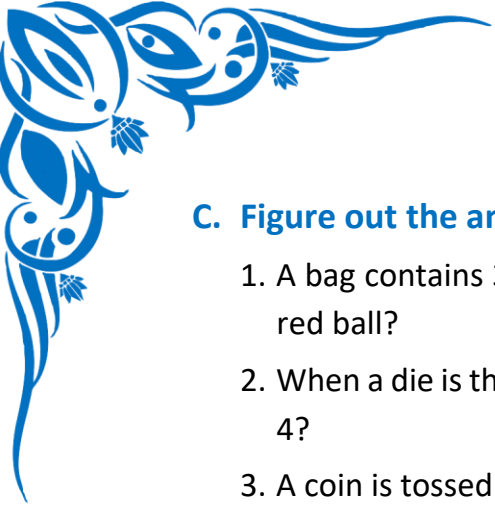
- a) $\frac{1}{3}$
- b) $\frac{1}{2}$
- c) $\frac{2}{3}$
- d) $\frac{1}{4}$

5. Probability is always a number between.

- a) -1 and 0
- b) 0 and 1
- c) 1 and 2
- d) 0 and 2

B. Write the Missing Terms to Complete the Sentences:

1. Probability is the measure of _____ an event.
2. The probability of a sure event is _____.
3. If an event cannot happen, its probability is _____.
4. Probability of an event = number of favorable outcomes divided by total number of _____ outcomes.
5. The sum of probabilities of all possible outcomes of an experiment is always _____.



C. Figure out the answers to these questions:

1. A bag contains 3 red balls and 5 blue balls. What is the probability of drawing a red ball?
2. When a die is thrown once, find the probability of getting a number greater than 4?
3. A coin is tossed two times. List all the possible outcomes.
4. If a card is drawn from a pack of 52 cards, what is the probability of getting a king.
5. A spinner has numbers from 1 to 8. What is the probability of getting a number divisible by 4?

D. Mark each sentence with a True (✓) or False (X):

1. The probability of any event can be greater than 1.
2. Probability can never be a negative number.
3. An impossible event has a probability of 0.
4. Probability of getting a prime number on a die is $\frac{3}{6}$.
5. If an event is certain to happen, its probability is 1.

E. Challenge yourself with these questions:

1. Write two real life situations where probability is used.
2. What is the probability of getting a multiple of 3 when a die is rolled once?
3. A bag contains 4 green balls and 6 yellow balls. Find the probability of picking a yellow ball.
4. In a single toss of two coins, what is the probability of getting at least one head
5. What is the probability of getting an odd number when a die is rolled?