

Quiz 4.7: Probability of an Event

Multiple Choice: Choose the letter that corresponds to the correct answer. Write the answer in your answer sheet.

- What is the probability of the sample space S ?
A. -1 B. 0 C. 1 D. i
- Which of the following statements is true about the probability of an event that must happen?
A. The probability is 0.
B. The probability is 1.
C. The probability is between 0 and 1, inclusive.
D. The probability is greater than 1.
- Which of the following statements is true about probability?
A. Probability can be negative.
B. Probability can be any real number.
C. Probability is a number between 0 and 1, inclusive.
D. Probability is a number greater than 1.
- What is the probability of an event that cannot happen?
A. -1 B. 0 C. 1 D. i
- Given a regular deck of cards, a card is drawn at random. What is the probability of not getting a face card?
A. $\frac{3}{13}$ B. $\frac{7}{13}$ C. $\frac{10}{13}$ D. $\frac{11}{13}$
- Three coins are tossed. What is the probability of getting three heads?
A. $\frac{1}{8}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. 1
- What is the probability of an event E' which signifies “not in E”?
A. $P(E') = P(E)$ B. $P(E') = P(E) - 1$ C. $P(E') = 1 - P(E)$ D. $P(E') = P(E) + 1$
- A pair of dice is rolled. What is the probability of getting a sum of seven?
A. $\frac{7}{36}$ B. $\frac{7}{12}$ C. $\frac{1}{36}$ D. $\frac{1}{6}$
- A letter is drawn at random from those in MATHEMATICS. Find the probability that it is a vowel.
A. $\frac{3}{11}$ B. $\frac{4}{11}$ C. $\frac{5}{11}$ D. $\frac{6}{11}$
- Three coins are tossed. What is the probability of getting at least two heads?
A. $\frac{1}{8}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. 1

Answer Key

1. What is the probability of the sample space S ?

Solution:

- A. -1 B. 0 C. **1** D. i

2. Which of the following statements is true about the probability of an event that must happen?

Solution:

- A. The probability is 0.
B. **The probability is 1.**
C. The probability is between 0 and 1, inclusive.
D. The probability is greater than 1.

3. Which of the following statements is true about probability?

Solution:

- A. Probability can be negative.
B. Probability can be any real number.
C. **Probability is a number between 0 and 1, inclusive.**
D. Probability is a number greater than 1.

4. What is the probability of an event that cannot happen?

Solution:

- A. -1 B. **0** C. 1 D. i

5. Given a regular deck of cards, a card is drawn at random. What is the probability of not getting a face card?

Solution:

- A. $\frac{3}{13}$ B. $\frac{7}{13}$ C. $\frac{10}{13}$ D. $\frac{11}{13}$

6. Three coins are tossed. What is the probability of getting three heads?

Solution:

- A. $\frac{1}{8}$ B. $\frac{1}{4}$ C. $\frac{1}{2}$ D. 1

7. What is the probability of an event E' which signifies “not in E ”?

Solution:

- A. $P(E') = P(E)$ B. $P(E') = P(E) - 1$ C. **$P(E') = 1 - P(E)$** D. $P(E') = P(E) + 1$

8. A pair of dice is rolled. What is the probability of getting a sum of seven?

Solution:

- A. $\frac{7}{36}$ B. $\frac{7}{12}$ C. $\frac{1}{36}$ D. $\frac{1}{6}$

9. A letter is drawn at random from those in MATHEMATICS. Find the probability that it is a vowel.

Solution:

- A. $\frac{3}{11}$ B. $\frac{4}{11}$ C. $\frac{5}{11}$ D. $\frac{6}{11}$

10. Three coins are tossed. What is the probability of getting at least two heads?

Solution:

A. $\frac{1}{8}$

B. $\frac{1}{4}$

C. $\frac{1}{2}$

D. 1