

# CONDITIONAL PROBABILITY FORMULA

Probability or  $P/A$  or  $P/B$  is a statistical concept. The occurrence of random events is dealt by probability concepts. Probability is the possibility of the outcome of any event. It is helpful in making predictions and decisions. You will learn about its meaning, significance, and formula on this page. In the end, there is a worksheet to check the practical understanding of the probability concept among students.

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**Q1: Which formula is used to calculate conditional probability?**

A:  $P(A|B) = P(A \cap B) / P(B)$

B:  $P(A) = P(A \cap B) / P(B)$

C:  $P(A|B) = P(A) * P(B)$

D:  $P(A) = P(B|A) * P(A)$

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**Q2: If events A and B are independent, what is the value of  $P(A|B)$ ?**

A: 0

B: 1

C:  $P(A)$

D:  $P(B)$

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**Q3: When calculating conditional probability, what is the denominator in the formula  $P(A|B)$ ?**

A:  $P(A)$

B:  $P(B)$

C:  $P(A \cup B)$

D:  $P(A \cap B)$

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**Q4: Is probability concept can be used in practical life?**

A: Yes

B: No

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**Q5: Is there any relation between conditional probability and Bayes theorem?**

A: True

B: False

C: Partial true

D: Not agree

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**Q6: What is the probability of events A and B together?**

- A:  $P(A)$
  - B:  $P(A \cap B)$
  - C:  $P(A|B)$
  - D: None of the above
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**Q7: What among the following deals with the probability of a single event?**

- A:  $P(A)$
  - B:  $P(A \cap B)$
  - C:  $P(A|B)$
  - D: None of the above
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**Q8: What would be the probability of getting head while tossing?**

- A:  $1/4$
  - B:  $1/2$
  - C:  $1/3$
  - D: None of the above
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**Q9: What are the general mistakes that students commit while using the probability concept?**

- A: Avoid the use of proper formula
  - B: Gets confused with the events A and B
  - C: Not determine the appropriate probability conditions
  - D: All of the above
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**Q10: What is true about Probability?**

- A: Occurring of event
  - B: Conditional probability is part of probability theory
  - C: Only B
  - D: Both A and B
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## Answers

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**Q1:** A -  $P(A|B) = P(A \cap B) / P(B)$

**Q2:** B - 1

**Q3:** B -  $P(B)$

**Q4:** A - Yes

**Q5:** A - True

**Q6:** B -  $P(A \cap B)$

**Q7:** A -  $P(A)$

**Q8:** B -  $1/2$

**Q9:** D - All of the above

**Q10:** C - Only B