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Required Quiz 4.1: Week 4 Quiz

Due Oct 10 at 11:59pm Points 20 Questions 20
Available Sep 27 at 12am - Oct 10 at 11:59pm Time Limit 30 Minutes

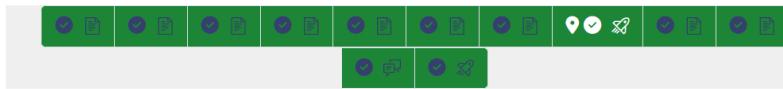
Submission Details:

Time: 12 minutes

Current Score: 14 out of 20

Kept Score: 14 out of 20

Instructions



⌚ Learning Outcome Addressed

1. Organise, manage and present data.
2. Apply probability in business.

It is now time to assess your understanding of the concepts covered so far in this module.

Quiz Instructions

- The time limit for this quiz is 30 mins. Kindly complete and submit this quiz within this time.
- You have only one attempt to answer the quiz.
- All quiz attempts must be attempted by **Friday, October 10, 2025, by 11:59 PM IST**.
- The correct answers will be displayed after quiz submissions deadline.

Note: This is a graded quiz and counts towards programme completion.

This quiz was locked Oct 10 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	12 minutes	14 out of 20

Score for this quiz: 14 out of 20

Submitted Oct 9 at 10:38pm

This attempt took 12 minutes.

Question 1 1 / 1 pts

Which type of probability assumes all outcomes are equally likely?

- Subjective
- Classical
- Empirical
- Relative Frequency

That's correct!

Correct!

Question 2 1 / 1 pts

In the context of probability, what does "complement" refer to?

- A combination of events
- The opposite event
- The product of probabilities
- The sum of probabilities

Correct!

That's correct!

Question 3

1 / 1 pts

Which of the following is an example of an experiment?

- Calculating revenue
- Measuring the likelihood of rain
- Analysing past data
- Conducting a marketing campaign

Correct!

That's correct!

Question 4

1 / 1 pts

Which rule is used when determining the probability of independent events occurring together?

- Addition Rule
- Multiplication Rule
- Subtraction Rule
- Complement Rule

Correct!

That's correct!

Question 5

1 / 1 pts

What does a conditional probability $P(A|B)$ signify?

- The probability of event A occurring independently of event B.
- The joint probability of events A and B divided by the probability of event A.
- The probability of events A and B occurring together.
- The probability of event A occurring given that event B has occurred.

Correct!

That's correct!

Question 6 0 / 1 pts

Who is known for compiling the first theory of probability?

You Answered

Jacob Bernoulli

- Rev. Thomas Bayes
- Joseph Lagrange
- Pierre-Simon Laplace

Correct Answer

That's incorrect! Revisit the videos for this week.

Question 7 1 / 1 pts

Which of the following is an example of mutually exclusive events?

Correct!

- Rolling a die and flipping a coin
- Choosing a red or blue ball from a box
- Traveling to two countries at the same time
- Watching TV and reading a book simultaneously

That's correct!

Question 8 0 / 1 pts

How do you find the marginal probability of an event?

Correct Answer

- By subtracting the joint probability from the total probability.
- By summing up the joint probabilities of all events involving the event.
- By multiplying the probability of the event with the number of occurrences.

You Answered

By dividing the joint probability by the total number of events.

That's incorrect! Revisit the videos for this week.

Question 9 0 / 1 pts

What does statistical dependence mean in probability theory?

- The probability of both events occurring is calculated by multiplying their individual probabilities.

Correct Answer

- Events occur independently of each other.
- The probability of one event occurring is influenced by the occurrence of another event.

You Answered

- The occurrence of one event does not affect the probability of another event.

That's incorrect! Revisit the videos for this week.

Question 10

1 / 1 pts

What does $P(B|A)$ represent?

Correct!

- Probability of B
- Probability of B given A
- Probability of A given B
- Probability of both A and B

That's correct!

Question 11

1 / 1 pts

Which of the following statements is true for two events A and B that are statistically independent?

Correct!

- The probability of A and B occurring together is the product of their individual probabilities.
- The occurrence of B guarantees the occurrence of A.
-
- The probability of A occurring is equal to the probability of B occurring.
- The occurrence of A affects the probability of B.

That's correct!

Question 12

1 / 1 pts

If the probability of event A is 0.3 and the probability of event B is 0.5, what is the probability that both events occur if they are independent?

Correct!

- 0.15
- 0.80
- 0.20
- 0.50

That's correct!

Question 13

0 / 1 pts

A bag contains 3 red balls and 2 blue balls. What is the probability of drawing a red ball?

Correct Answer

- 3/5
- 4/5
- 2/5
- 1/5

You Answered

That's incorrect! Revisit the videos for this week.

Question 14

1 / 1 pts

In subjective probability, what is the main factor in assigning a probability?

Correct!

- Personal judgment
- Mathematical calculation
- Historical frequency
- Experimental data

That's correct!

Question 15

1 / 1 pts

What is the sample space in an experiment?

Correct!

- A single outcome of an experiment
- The set of all possible outcomes
- The most likely outcome
- The likelihood of an event

That's correct!

Question 16

0 / 1 pts

If the probability of a report being approved by GL is 0.85, DH is 0.80, and DC is 0.82, what is the probability that the report is approved by all three?

You Answered

0.68

0.58

Correct Answer

0.56
 0.5576
 0.55

That's incorrect! Revisit the videos for this week.

Question 17 1 / 1 pts

What is the probability of two independent events with probabilities 0.7 and 0.8 occurring?

- 0.9
 0.56
 1.5
 0.14

That's correct!

Correct!

Question 18 0 / 1 pts

Given that a restaurant passes inspection by Inspector A with a probability of 0.02 and by Inspector B with a probability of 0.07, what is the probability that it passes both inspections?

- 0.10
 0.0014
 0.09
 0.014

That's incorrect! Revisit the videos for this week.

Correct Answer

You Answered

Question 19 1 / 1 pts

What does VUCA stand for in the business environment?

- Variety, Uniqueness, Complexity, Accuracy
 Volume, Uniqueness, Clarity, Ambiguity
 Value, Uncertainty, Clarity, Adaptability
 Volatility, Uncertainty, Complexity, Ambiguity

That's correct!

Correct!

Question 20

1 / 1 pts

If a company wins 80% of its contracts, what is the probability of winning the next contract?

 0.20 0.80 0.90 0.50

That's correct!

Correct!

Quiz Score: **14** out of 20

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