

Statistics, Modeling and Finance Practice Exam (Sample)

Study Guide



Everything you need from our exam experts!

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. Which of the following best describes the median?**
 - A. The most frequently occurring value**
 - B. The value that separates the higher half from the lower half**
 - C. The arithmetic average of a dataset**
 - D. The range of values**
- 2. What term describes a result from a sample selection process where all members of a population have the same probability of being selected?**
 - A. Sample**
 - B. Random sample**
 - C. Anomaly**
 - D. Deviation**
- 3. Based on the following rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, \$875, what is the modal rent?**
 - A. \$800**
 - B. \$750 and 800**
 - C. \$800 and 810**
 - D. \$750, \$800, and \$850**
- 4. Which term describes a loan that employs a payment schedule leading to a final lump sum payment?**
 - A. Adjustable**
 - B. Term**
 - C. Balloon**
 - D. Interest-only**
- 5. What is the definition of the term that describes how much a variable's value differs from the mean or other benchmark?**
 - A. Range**
 - B. Deviation**
 - C. Error of the mean**
 - D. Average deviation**

6. What value represents the average of a given set of numbers?

- A. Median**
- B. Mean**
- C. Range**
- D. Standard Deviation**

7. What is the standard deviation of the given 12 recent sales?

- A. \$6,378.25**
- B. \$6,415.90**
- C. \$6,456.15**
- D. \$6,573.89**

8. What is the median of the following monthly rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, \$875?

- A. \$750**
- B. \$775**
- C. \$800**
- D. \$815**

9. When the seller retains the existing mortgage while lending additional money, what is this transaction called?

- A. Land contract**
- B. Wrap-around contract**
- C. Conditional assumption**
- D. Pass-through**

10. What calculation method involves both addition and subtraction before proceeding with division and multiplication?

- A. Order of Operations**
- B. Basic Arithmetic**
- C. Statistical Analysis**
- D. Modeling Technique**

Answers

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1. B
2. B
3. D
4. C
5. B
6. B
7. C
8. C
9. B
10. A

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Explanations

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1. Which of the following best describes the median?

- A. The most frequently occurring value**
- B. The value that separates the higher half from the lower half**
- C. The arithmetic average of a dataset**
- D. The range of values**

The median is defined as the value that separates the higher half from the lower half of a dataset, making option B the most accurate description. When the data is arranged in ascending (or descending) order, the median is located at the middle position. If there is an odd number of observations, it is simply the middle value. If the dataset contains an even number of observations, the median is calculated as the average of the two central numbers. This characteristic makes the median a useful measure of central tendency, especially in datasets that may contain outliers or are skewed, as it is not affected by extremes like the mean. The other options describe different statistical concepts. For instance, the most frequently occurring value refers to the mode, which identifies the most common data point in a set, while the arithmetic average is a term for the mean, which is calculated by summing all values and dividing by the number of values. The range refers to the difference between the highest and lowest values in the dataset, which does not convey the central tendency of the data. Thus, option B clearly and accurately encapsulates the definition of the median.

2. What term describes a result from a sample selection process where all members of a population have the same probability of being selected?

- A. Sample**
- B. Random sample**
- C. Anomaly**
- D. Deviation**

A random sample is a method of selecting a subset of individuals from a larger population in such a way that every possible sample has an equal chance of being chosen. This ensures that each member of the population has the same probability of being included in the sample, which is essential for statistical validity. A random sample minimizes bias and allows for the results to be generalized to the larger population, making it a fundamental concept in statistical research. By employing randomness in the selection process, researchers can accurately estimate population parameters and test hypotheses with greater confidence. This concept contrasts with other terms provided. A sample simply refers to the selected group itself, while an anomaly denotes an outlier or an unexpected result that may not represent the underlying population. Deviation typically refers to the difference between observed and expected values, further emphasizing the importance of having a representative sample. Thus, the randomization process is crucial for obtaining valid and reliable results in statistical analysis.

3. Based on the following rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, \$875, what is the modal rent?

- A. \$800**
- B. \$750 and 800**
- C. \$800 and 810**
- D. \$750, \$800, and \$850**

The modal rent is determined by identifying the value or values that appear most frequently in a data set. In this case, we analyze the given rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, and \$875. First, we count how many times each rent occurs: - \$750 appears 3 times - \$775 appears 2 times - \$800 appears 3 times - \$825 appears 1 time - \$850 appears 3 times - \$875 appears 2 times - \$900 appears 1 time The rents \$750, \$800, and \$850 each occur 3 times, which is more than any other rent in the set. Since three different values have the same highest frequency, the mode is not singular; it is represented by multiple values. Therefore, the modal rent is indeed \$750, \$800, and \$850, as these are the values that appear most frequently in the dataset. This correct identification of multiple modes reflects an important concept in statistics, where a dataset can have more than one mode when multiple values have

4. Which term describes a loan that employs a payment schedule leading to a final lump sum payment?

- A. Adjustable**
- B. Term**
- C. Balloon**
- D. Interest-only**

The correct term for a loan that utilizes a payment schedule culminating in a final lump sum payment is "balloon." In a balloon loan arrangement, the borrower makes regular payments, typically consisting of interest only or interest and a portion of the principal, until the end of the term. At that point, the remaining balance, which is significantly larger, is due in one final payment known as the balloon payment. This structure is often seen in scenarios where borrowers expect to either refinance before the balloon payment is due or to sell the asset that the loan financed. In contrast, an adjustable loan refers to a type of loan with interest rates that can change periodically based on changes in a corresponding financial index. A term loan is characterized by a fixed repayment schedule over a specified period, with equal payments consisting of both principal and interest. Interest-only loans allow borrowers to pay only the interest for a certain period, with the principal due later but do not inherently involve a lump sum payment at the end. Thus, "balloon" is the most accurate descriptor for a loan that features a scheduled series of smaller payments leading up to a significant final payment.

5. What is the definition of the term that describes how much a variable's value differs from the mean or other benchmark?

- A. Range**
- B. Deviation**
- C. Error of the mean**
- D. Average deviation**

The term that describes how much a variable's value differs from the mean or other benchmark is indeed "deviation." Deviation captures the difference between an individual data point and the mean of a dataset, which signifies how far away each observation lies from the central tendency. This measure allows statisticians to understand the spread and variability within the data set, as well as assess how representative the mean is of the overall data. For context, the range refers to the difference between the maximum and minimum values in a dataset, but it does not provide insight into the differences of individual values from the mean. The error of the mean typically refers to the uncertainty associated with an estimated mean value, often represented by the standard error, which is not the same as measuring individual deviations. Average deviation, on the other hand, could refer to the average of the absolute deviations, but it is not a standard term like "deviation" and may not encompass the concept as clearly as the term "deviation" does.

6. What value represents the average of a given set of numbers?

- A. Median**
- B. Mean**
- C. Range**
- D. Standard Deviation**

The average of a given set of numbers is defined as the mean. To calculate the mean, you add all the numbers in the set together and then divide that sum by the total number of values in the set. This gives you a value that represents the central tendency of the data, providing a straightforward summary of the entire dataset. The median, on the other hand, is the middle value when the numbers are arranged in ascending or descending order and does not necessarily represent the average, especially in skewed distributions. The range measures the difference between the highest and lowest values in the dataset, which gives information on the spread of the data rather than its center. Standard deviation quantifies the amount of variation or dispersion in a set of values, again focusing on how the numbers are spread out rather than on the calculation of an average. Each of these alternatives provides different insights into the dataset but does not fulfill the definition of the average as effectively as the mean does.

7. What is the standard deviation of the given 12 recent sales?

- A. \$6,378.25**
- B. \$6,415.90**
- C. \$6,456.15**
- D. \$6,573.89**

To determine the standard deviation of the recent sales data accurately, you would typically follow the steps of calculating the mean of the sales, then determining the variance by finding the squared differences from the mean, and finally taking the square root of the variance to find the standard deviation. If the selected answer is \$6,456.15, this implies that after performing these calculations based on the sales data provided, you arrived at a value that correctly reflects the spread of the sales figures around the mean. Standard deviation is a measure that indicates how much individual sales vary from the average sale, and it is crucial for understanding the risk involved in sales performance. The process involves ensuring the accuracy of each step—accurately computing the mean, squaring the deviations, summing them, dividing by the appropriate number (for a sample or population), and taking the square root. Finding that the answer is \$6,456.15 suggests that the calculations reflecting the variability in the sales data were executed properly and this figure represents a standard deviation consistent with the characteristics of the data set in question. This allows for a reliable assessment of the sales performance and can be used in decision-making processes regarding sales strategies and forecasting.

8. What is the median of the following monthly rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, \$875?

- A. \$750**
- B. \$775**
- C. \$800**
- D. \$815**

To find the median of a set of numbers, the first step is to arrange the numbers in ascending order. For the given monthly rents: \$775, \$800, \$750, \$825, \$875, \$850, \$850, \$750, \$775, \$850, \$800, \$800, \$750, \$900, \$875, the sorted list becomes: \$750, \$750, \$750, \$775, \$775, \$800, \$800, \$800, \$825, \$850, \$850, \$875, \$875, \$875, \$900. Once the numbers are sorted, the next step is to find the median. The median is defined as the middle value in a data set when arranged in order. If the number of observations is odd, the median is simply the middle number. If the number of observations is even, the median is the average of the two middle numbers. In this case, there are 15 values in the sorted list, which is odd. Therefore, to find the median, we need to locate the 8th value in this list (since $(15 + 1) \div 2 = 8$). Counting through the ordered list, the

9. When the seller retains the existing mortgage while lending additional money, what is this transaction called?

- A. Land contract**
- B. Wrap-around contract**
- C. Conditional assumption**
- D. Pass-through**

The transaction in which the seller retains the existing mortgage while lending additional money is known as a wrap-around contract. In this arrangement, the seller finances the purchase of the property by providing a second loan that "wraps around" the existing mortgage. This means that the buyer makes payments to the seller instead of directly to the lender of the original mortgage. The key aspect of a wrap-around contract is that the seller continues to make payments on the existing mortgage while collecting payments from the buyer that are often higher than the existing mortgage payment. This structure allows for a seamless transaction for both the seller and the buyer, particularly in situations where the existing mortgage terms are more favorable than current market conditions. In contrast, other options like land contracts and conditional assumptions have distinct characteristics. A land contract is a seller-financed arrangement where the buyer obtains equitable title and makes payments directly to the seller, who retains legal title until the purchase price is fully paid. A conditional assumption involves agreeing to assume responsibility for a loan under specific conditions, typically requiring approval from the lender. Lastly, the term pass-through refers to securities that pass on the cash flows from a specific loan or pool of loans to investors, rather than describing the arrangement between a seller and a buyer concerning real estate financing

10. What calculation method involves both addition and subtraction before proceeding with division and multiplication?

- A. Order of Operations**
- B. Basic Arithmetic**
- C. Statistical Analysis**
- D. Modeling Technique**

The calculation method that involves both addition and subtraction before proceeding with division and multiplication is known as the Order of Operations. This method is a set of rules that dictates the sequence in which different mathematical operations should be performed to ensure consistent and accurate results. In the context of mathematical expressions, the Order of Operations follows a specific hierarchy: parentheses are addressed first, followed by exponents, then multiplication and division (from left to right), and finally addition and subtraction (also from left to right). This hierarchy ensures that calculations are conducted in a structured manner, allowing for clarity and precision in the final results. For example, in the expression $(3 + 5 \times 2)$, according to the order of operations, multiplication is performed before addition, leading to $(3 + 10 = 13)$ rather than (8) if addition was applied first. This understanding emphasizes the importance of correctly applying the rules of the Order of Operations in various mathematical settings, including statistics, finance, and general arithmetic, making it a fundamental concept in mathematics.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

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We wish you the very best on your exam journey. You've got this!

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