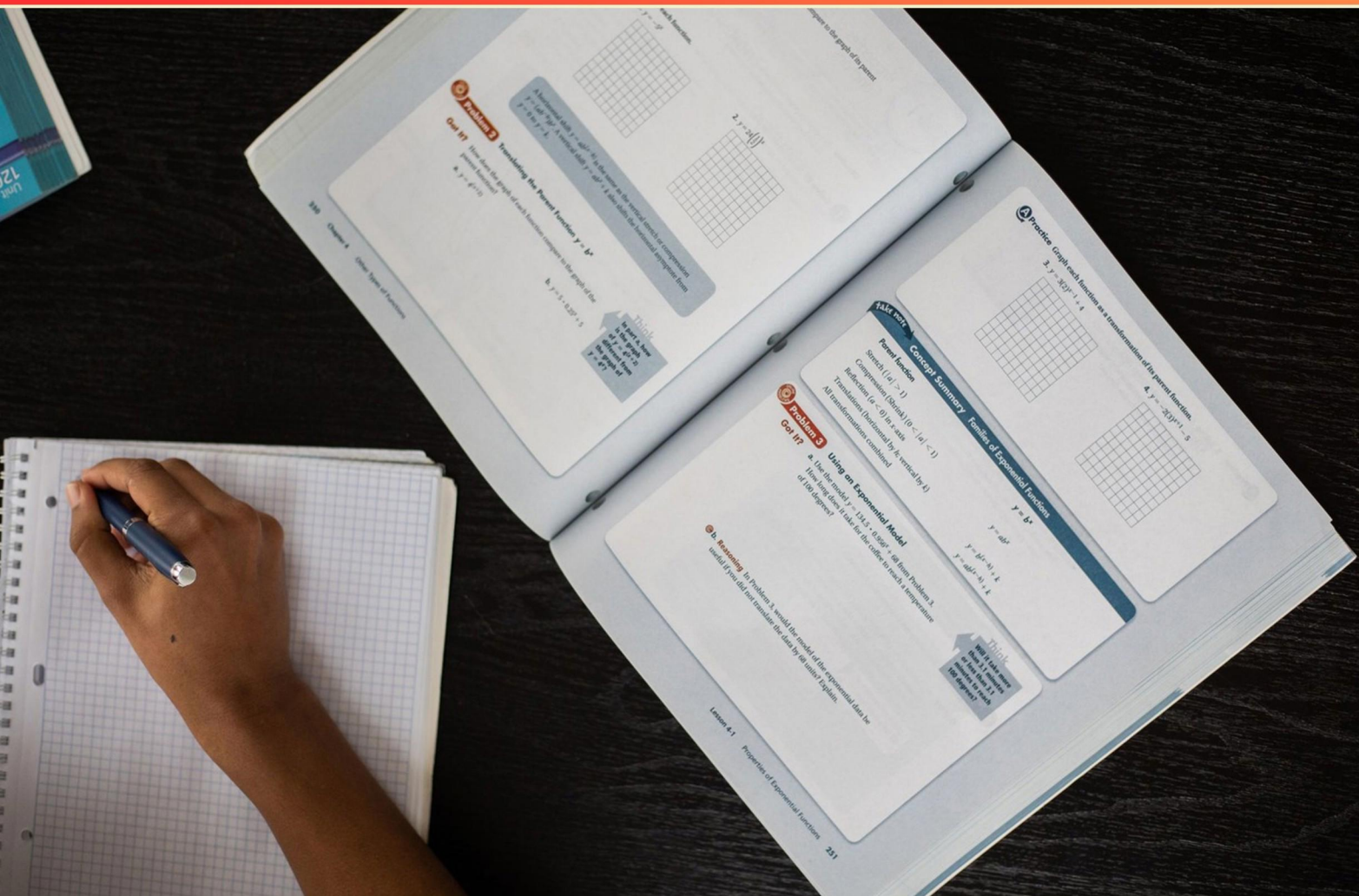


QUANTITATIVE LITERACY PRACTICE EXAM (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE

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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. In a sample of 400 adults, how many do not want to learn how to ski if 75 do not like cold weather and 92 want to learn to ski?
 - A. 75
 - B. 200
 - C. 315
 - D. 77
2. The measures of two complementary angles are given as $(13z + 5)^\circ$ and $(20z - 14)^\circ$. What are their measures?
 - A. $44^\circ, 46^\circ$
 - B. $40^\circ, 50^\circ$
 - C. $35^\circ, 55^\circ$
 - D. $30^\circ, 60^\circ$
3. If the probability of a candidate being elected is 0.10, what are the odds of being elected?
 - A. 1:10
 - B. 1:9
 - C. 1:5
 - D. 2:9
4. What is the key benefit of using historical data in forecasting?
 - A. It eliminates all assumptions
 - B. It provides a basis for future predictions
 - C. It guarantees accurate outcomes
 - D. It requires no analysis
5. If a recipe calls for $2 \frac{1}{4}$ teaspoons of vanilla for 3 dozen cookies, how much vanilla is needed for 4 dozen cookies?
 - A. $3 \frac{1}{2}$ teaspoons
 - B. 3 teaspoons
 - C. $3 \frac{1}{4}$ teaspoons
 - D. 4 teaspoons

6. What is an outlier in statistics?

- A. A data point significantly different from other observations
- B. The average of a data set
- C. The most common value in a data set
- D. A value that lies within one standard deviation of the mean

7. What percentage discount is being given on a laptop that regularly costs \$995 and is now on sale for \$699?

- A. 25.00%
- B. 29.75%
- C. 30.00%
- D. 15.50%

8. What is the probability of getting two boys if each child born has an equal chance of being a boy or a girl?

- A. $\frac{1}{2}$
- B. $\frac{1}{5}$
- C. $\frac{1}{4}$
- D. $\frac{3}{8}$

9. What does the 68-95-99.7 rule describe?

- A. The distribution of data in a normal distribution
- B. The relationship between two variables
- C. The calculation of probability
- D. The identification of outliers

10. What is a budget primarily used for?

- A. To predict future expenses only
- B. To outline expected income and expenses
- C. To measure savings over time
- D. To track past expenses only

Answers

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

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Explanations

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1. In a sample of 400 adults, how many do not want to learn how to ski if 75 do not like cold weather and 92 want to learn to ski?

- A. 75
- B. 200
- C. 315
- D. 77

To determine how many adults in the sample do not want to learn how to ski, we need to analyze the information given. The total number of adults is 400. We know that 92 adults want to learn to ski. Therefore, to find out how many do not want to learn to ski, we subtract the number of adults who want to learn to ski from the total number of adults in the sample. The calculation is as follows: Total adults in the sample: 400 Adults wanting to learn to ski: 92 So, the number of adults who do not want to learn to ski is calculated as: $400 - 92 = 308$. However, the answer claims to be 77, which may imply an additional context not provided in the question, like factoring in the weather preferences. The 75 adults who do not like cold weather are not directly correlated to the adults who expressed interest in skiing unless more context is provided regarding their overlap with the group that wants to ski. If we assume that those who dislike cold weather and those wanting to learn to ski are separate groups, the result stands at 308 adults who do not want to learn to ski. Thus, if the aim is to directly answer how many adults do

2. The measures of two complementary angles are given as $(13z + 5)^\circ$ and $(20z - 14)^\circ$. What are their measures?

- A. $44^\circ, 46^\circ$
- B. $40^\circ, 50^\circ$
- C. $35^\circ, 55^\circ$
- D. $30^\circ, 60^\circ$

To determine the measures of the two complementary angles, we need to start with the definition of complementary angles, which states that two angles add up to 90 degrees. In this scenario, we have the expressions for the angles as $(13z + 5)^\circ$ and $(20z - 14)^\circ$. The equation to set up based on their complementary nature is: $(13z + 5) + (20z - 14) = 90$. Combining the terms gives: $33z - 9 = 90$. Next, we reorganize this to solve for z : $33z = 90 + 9$, $33z = 99$, $z = 3$. Now that we have the value of z , we can find the measures of the angles by substituting z back into the original angle expressions: For the first angle: $13(3) + 5 = 39 + 5 = 44^\circ$. For the second angle: $20(3) - 14 = 60 - 14 = 46^\circ$. So the measures of the angles are 44° and 46° . This correctly matches the selection provided, illustrating that the angles not only add up to 90 degrees but are

3. If the probability of a candidate being elected is 0.10, what are the odds of being elected?

- A. 1:10
- B. 1:9**
- C. 1:5
- D. 2:9

To determine the odds of a candidate being elected based on the probability provided, it is essential to understand the relationship between probability and odds. Probability is defined as the ratio of favorable outcomes to the total number of possible outcomes, while odds are usually expressed as the ratio of favorable outcomes to unfavorable outcomes. In this case, the probability of the candidate being elected is given as 0.10, which means that there is a 10% chance of the candidate winning. To convert this probability into odds, we first recognize that if the probability of being elected is 0.10 (or 10%), the probability of not being elected would be $1 - 0.10$, which equals 0.90 (or 90%). Now, we can express the odds of being elected as the ratio of the probability of being elected (0.10) to the probability of not being elected (0.90). Thus, we have: Odds of being elected = Probability of being elected : Probability of not being elected = $0.10 : 0.90$. To simplify this ratio, we can multiply both sides by 10 for easier interpretation: $= 1 : 9$. The resulting odds of 1:9 mean that for

4. What is the key benefit of using historical data in forecasting?

- A. It eliminates all assumptions
- B. It provides a basis for future predictions**
- C. It guarantees accurate outcomes
- D. It requires no analysis

The key benefit of using historical data in forecasting is that it provides a basis for future predictions. Historical data reflects past trends, patterns, and behaviors, which can be invaluable for making informed estimates about what may occur in the future. By analyzing this data, forecasters can identify cyclical patterns, seasonal effects, and other relevant factors that have influenced outcomes in the past, enabling them to develop more accurate models for future events. While historical data can significantly enhance the forecasting process, it does not eliminate assumptions; there are still inherent uncertainties involved. Additionally, historical data does not guarantee accurate outcomes, as new and unforeseen variables can arise. Furthermore, relying on historical data does necessitate analysis to interpret the data effectively and derive useful insights. Thus, utilizing historical data gives forecasters a stronger foundation for their predictions compared to making decisions without such evidence.

5. If a recipe calls for $2\frac{1}{4}$ teaspoons of vanilla for 3 dozen cookies, how much vanilla is needed for 4 dozen cookies?

- A. $3\frac{1}{2}$ teaspoons
- B. 3 teaspoons
- C. $3\frac{1}{4}$ teaspoons
- D. 4 teaspoons

To determine how much vanilla is needed for 4 dozen cookies based on the original recipe, we can start by considering the amount of vanilla required per dozen. The recipe specifies that $2\frac{1}{4}$ teaspoons of vanilla is needed for 3 dozen cookies. To find out how much is needed for 1 dozen cookies, we can divide the total amount of vanilla by the number of dozens: 1. Convert $2\frac{1}{4}$ teaspoons to an improper fraction for easier calculations: $2\frac{1}{4} = \frac{9}{4}$ teaspoons. 2. Now, divide by the number of dozens: $(\frac{9}{4} \text{ teaspoons}) / 3 = (\frac{9}{4}) * (\frac{1}{3}) = \frac{9}{12} \text{ teaspoons} = \frac{3}{4} \text{ teaspoons per dozen}$. Next, to find out how much vanilla is needed for 4 dozen cookies, we simply multiply the amount needed for 1 dozen by 4: $(\frac{3}{4} \text{ teaspoons per dozen}) * 4 \text{ dozen} = 3 \text{ teaspoons}$. However, it's crucial to verify twice because that calculation might seem straightforward. Reassessing, if we multiply the original amount ($2\frac{1}{4}$ teaspoons) needed for 3 dozen directly by the

6. What is an outlier in statistics?

- A. A data point significantly different from other observations
- B. The average of a data set
- C. The most common value in a data set
- D. A value that lies within one standard deviation of the mean

An outlier in statistics is defined as a data point that is significantly different from other observations in a data set. This typically means that the value lies far outside the range of the majority of the data, either being much larger or much smaller than the typical values. Outliers can arise from variability in the data, measurement errors, or they might indicate a novel phenomenon that warrants further investigation. Identifying outliers is important because they can substantially affect the results of statistical analyses, such as the means or standard deviations, and can distort the overall understanding of the data set. For example, in a data set of test scores, if most scores range from 60 to 80, but one score is 30, this score would be considered an outlier because it is significantly lower than the rest. The other options provide definitions that do not align with the concept of an outlier in statistics. The average or mean represents the central tendency of a data set, while the most common value indicates the mode. Values that lie within one standard deviation of the mean represent a portion of the data that is considered typical, rather than differing significantly. Therefore, option A is the most accurate depiction of what an outlier is in statistical terms.

7. What percentage discount is being given on a laptop that regularly costs \$995 and is now on sale for \$699?

- A. 25.00%
- B. 29.75%**
- C. 30.00%
- D. 15.50%

To determine the percentage discount on the laptop, first, you need to find the difference between the regular price and the sale price. In this case, the regular price is \$995, and the sale price is \$699. Calculating the difference gives you: $995 - 699 = 296$ This means the discount amount is \$296. Next, to find the percentage discount, you divide the discount amount by the regular price and then multiply by 100 to convert it to a percentage: $\text{Percentage Discount} = \left(\frac{296}{995}\right) \times 100$ Calculating this: $\frac{296}{995} \approx 0.29749$ When you multiply this by 100, you get approximately: $0.29749 \times 100 \approx 29.75\%$ This calculation indicates that the percentage discount being offered on the laptop is approximately 29.75%. This is why the choice associated with this percentage is the correct answer.

8. What is the probability of getting two boys if each child born has an equal chance of being a boy or a girl?

- A. $1/2$
- B. $1/5$
- C. $1/4$**
- D. $3/8$

To determine the probability of getting two boys when each child has an equal chance of being a boy or a girl, we begin by defining the probabilities involved. Each child can be either a boy or a girl, with each having a probability of $1/2$. When considering two children, we can represent the possible combinations of genders: boy-boy, boy-girl, girl-boy, and girl-girl. This gives us a total of four outcomes. Among these outcomes, only one is the specific case of both children being boys. To find the probability of this event, we take the number of favorable outcomes (which is 1 for boy-boy) and divide it by the total number of possible outcomes (which is 4). Therefore, the probability of having two boys is calculated as follows: Probability of getting two boys = Number of favorable outcomes / Total possible outcomes = $1 / 4$. This confirms that the correct answer is indeed $1/4$, which represents the likelihood of both children being boys in a scenario where each child has an equal chance of being either.

9. What does the 68-95-99.7 rule describe?

A. The distribution of data in a normal distribution

B. The relationship between two variables

C. The calculation of probability

D. The identification of outliers

The 68-95-99.7 rule, also known as the empirical rule, describes how data is distributed in a normal distribution, which is a symmetrical, bell-shaped curve that represents the distribution of many types of data. According to this rule, approximately 68% of the data points lie within one standard deviation of the mean, about 95% of the data points lie within two standard deviations, and roughly 99.7% lie within three standard deviations. This provides a useful framework for understanding how data is spread around the mean in a normal distribution, indicating the concentration of data points close to the average value and how they taper off further from it. This rule is foundational in statistics because it helps in making predictions about data and assessing probabilities, particularly in fields that rely on normal distributions, such as social sciences, natural sciences, and various industries. Understanding this concept is crucial for interpreting statistical data effectively and for conducting analyses that assume normality in datasets.

10. What is a budget primarily used for?

A. To predict future expenses only

B. To outline expected income and expenses

C. To measure savings over time

D. To track past expenses only

A budget is primarily used to outline expected income and expenses. It serves as a financial plan that helps individuals and organizations allocate resources effectively over a specified period, typically a month or a year. The main elements of a budget include anticipated income from various sources and expected expenditures, which can involve essential costs such as housing, food, transportation, and discretionary spending. By providing a comprehensive view of expected financial activity, a budget allows individuals to evaluate their financial situation, prioritize spending, and set savings goals. It acts as a roadmap for managing finances, facilitating informed decision-making about where to allocate funds to ensure that all obligations can be met while also setting aside money for savings or investments. Focusing solely on predicting future expenses, measuring savings over time, or tracking past expenses does not encompass the broader role of a budget, which integrates both income and expenses to shape future financial behavior and planning. Thus, the correct choice captures the essence of budgeting as a tool for managing all aspects of financial life.

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:

<https://quantitativeliteracy.examzify.com>

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

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