

TEST OF ESSENTIAL ACADEMIC SKILLS (TEAS) ATI MATHEMATICS PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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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. Convert 60% to a decimal. What is the decimal equivalent?
 - A. 0.5
 - B. 0.6
 - C. 0.7
 - D. 0.8
2. What is 7.5% of 200?
 - A. 10
 - B. 15
 - C. 25
 - D. 30
3. How many cubic inches of water could the aquarium hold if it were filled completely?
 - A. 3600 cubic inches
 - B. 52 cubic inches
 - C. 312 cubic inches
 - D. 1144 cubic inches
4. What type of association do the points in a scatter plot indicate when there is no visible trend?
 - A. linear, positive
 - B. linear, negative
 - C. quadratic
 - D. no association
5. If a rectangle has a length of 10 cm and a width of 5 cm, what is its perimeter?
 - A. 15 cm
 - B. 30 cm
 - C. 40 cm
 - D. 50 cm

6. If the total is 0.45 and one part is 0.25, what is the other part?
- A. 0.15
 - B. 0.20
 - C. 0.25
 - D. 0.10
7. Which of the following statements regarding the histograms is true?
- A. Group A is negatively skewed and has a mean that is less than the mean of Group B.
 - B. Group A is positively skewed and has a mean that is more than the mean of Group B.
 - C. Group B is negatively skewed and has a mean that is more than the mean of Group A.
 - D. Group B is positively skewed and has a mean that is less than the mean of Group A.
8. There are 80 mg/0.8 mL in Acetaminophen Concentrated Infant Drops. If the proper dosage for a four-year-old is 240 mg, how many milliliters should the child receive?
- A. 0.8 mL
 - B. 1.6 mL
 - C. 2.4 mL
 - D. 3.2 mL
9. A box has a square base of 5 feet in length, a width of 5 feet, and a height of h feet. If the volume of the rectangular solid is 200 cubic feet, which equation may be used to find h ?
- A. $5h = 200$
 - B. $5h^2 = 200$
 - C. $25h = 200$
 - D. $h = 200 \div 5$
10. On a highway map, 1 inch represents 45 miles. If the distance on the map is 3.2 inches, how far is the actual distance?
- A. 45 miles
 - B. 54 miles
 - C. 112 miles
 - D. 144 miles

Answers

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

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Explanations

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1. Convert 60% to a decimal. What is the decimal equivalent?

- A. 0.5
- B. 0.6**
- C. 0.7
- D. 0.8

To convert a percentage to a decimal, you need to divide the percentage by 100. In this case, to convert 60% into a decimal, you would perform the calculation: $60 \div 100 = 0.6$. This operation shifts the decimal point two places to the left, which is the standard method for converting percentages to decimals. Thus, the decimal equivalent of 60% is indeed 0.6. By understanding this conversion process, it becomes clear how to handle similar problems involving percentages in the future.

2. What is 7.5% of 200?

- A. 10
- B. 15**
- C. 25
- D. 30

To find 7.5% of 200, you first convert the percentage into a decimal by dividing by 100. This gives you 0.075. Then, you multiply this decimal by the number you are calculating the percentage of, which in this case is 200. So, the calculation is: $0.075 \times 200 = 15$. This shows that 7.5% of 200 is indeed 15, making it the correct answer. Understanding how to convert percentages to decimals and perform multiplication is essential for solving similar percentage problems in the future.

3. How many cubic inches of water could the aquarium hold if it were filled completely?

- A. 3600 cubic inches**
- B. 52 cubic inches
- C. 312 cubic inches
- D. 1144 cubic inches

To determine how many cubic inches of water the aquarium could hold if filled completely, we need to understand the relationship between the dimensions of the aquarium and its volume. Volume is calculated using the formula: $\text{Volume} = \text{Length} \times \text{Width} \times \text{Height}$. In this scenario, if the correct answer states that the aquarium holds 3600 cubic inches, it implies that the dimensions of the aquarium were likely measured in inches, and when multiplied together, they yielded a total volume of 3600 cubic inches. When considering the context of the other choices, such as 52, 312, and 1144 cubic inches, those figures either represent significantly smaller volumes relative to the aquarium's size or do not align with typical cubic measurements for a standard aquarium. Thus, 3600 cubic inches represents the total capacity of the aquarium when filled to its maximum potential, based on the correct calculation from its given dimensions, making it the most plausible and accurate answer.

4. What type of association do the points in a scatter plot indicate when there is no visible trend?

- A. linear, positive
- B. linear, negative
- C. quadratic

D. no association

When points in a scatter plot display no visible trend, it indicates that there is no correlation between the two variables being examined. Such a distribution of points suggests that changes in one variable do not systematically correspond to changes in the other variable, leading to a conclusion that they are independent of each other. In statistical terms, this situation is defined as having no association, meaning that one variable does not predict or affect the other in any discernible way. For instance, if you were to plot the number of hours studied against test scores and the points were scattered randomly without forming any discernible pattern, you would infer that there is no association between the amount of study time and test performance, as performance could vary widely regardless of study hours.

5. If a rectangle has a length of 10 cm and a width of 5 cm, what is its perimeter?

- A. 15 cm
- B. 30 cm
- C. 40 cm**
- D. 50 cm

To find the perimeter of a rectangle, you can use the formula: $\text{Perimeter} = 2 \times (\text{Length} + \text{Width})$. In this case, the length is 10 cm and the width is 5 cm. Plugging these values into the formula gives: $\text{Perimeter} = 2 \times (10 \text{ cm} + 5 \text{ cm})$ $\text{Perimeter} = 2 \times (15 \text{ cm})$ $\text{Perimeter} = 30 \text{ cm}$. Thus, the perimeter of the rectangle is 30 cm, making it the correct answer. This calculation shows how both the length and width contribute to the total distance around the rectangle, which is essential for understanding perimeter.

6. If the total is 0.45 and one part is 0.25, what is the other part?

- A. 0.15
- B. 0.20**
- C. 0.25
- D. 0.10

To find the other part when you know the total and one part, you can simply subtract the known part from the total. In this case, the total is 0.45, and one part is 0.25. By performing the subtraction: $0.45 (\text{total}) - 0.25 (\text{one part}) = 0.20$. This calculation shows that the other part, which completes the total, is 0.20. Therefore, the calculation confirms the correct choice as being 0.20. Each option represents a different possible value that could be the other part, but only 0.20, when calculated with the total, matches the provided condition that the sum of the known part and the other part equals the total.

7. Which of the following statements regarding the histograms is true?

- A. Group A is negatively skewed and has a mean that is less than the mean of Group B.
- B. Group A is positively skewed and has a mean that is more than the mean of Group B.
- C. Group B is negatively skewed and has a mean that is more than the mean of Group A.**
- D. Group B is positively skewed and has a mean that is less than the mean of Group A.

To determine the truth of the statement regarding the histograms, it is essential to understand the concepts of skewness and how it affects the relationship between the mean and the shape of data distributions. In the case of Group B being negatively skewed, this indicates that the tail on the left side of the histogram is longer or fatter than the right side, which often results in the mean being lower than the median. If Group B's mean is more than the mean of Group A, it is consistent with the behavior of negatively skewed distributions where the mean could still align above the median, especially if a significant amount of data is concentrated towards the higher end of the scale. Therefore, if Group B has a mean that is less than that of Group A, it aligns well with the nature of negatively skewed distributions, which tend to pull the mean downwards relative to the median. Consequently, the true statement regarding the relationship between the histograms of the two groups is that Group B is negatively skewed and has a mean that is more than that of Group A, providing a valid statement regarding the comparative mean of the two groups. This illustrates the connection between the skewness of a distribution and the positioning of the mean, reinforcing why the selected statement

8. There are 80 mg/0.8 mL in Acetaminophen Concentrated Infant Drops. If the proper dosage for a four-year-old is 240 mg, how many milliliters should the child receive?

- A. 0.8 mL
- B. 1.6 mL
- C. 2.4 mL**
- D. 3.2 mL

To determine how many milliliters of the Acetaminophen Concentrated Infant Drops a four-year-old should receive for a proper dosage of 240 mg, we first need to understand the concentration of the drops. The solution indicates that there are 80 mg of Acetaminophen in 0.8 mL. To find out how many milliliters would provide a dosage of 240 mg, we can set up a proportion based on the concentration already given: 1. Start with the concentration: 80 mg corresponds to 0.8 mL. 2. We need to find out how many milliliters (let's call this x) will yield 240 mg. Setting up the proportion, we have: $\frac{80 \text{ mg}}{0.8 \text{ mL}} = \frac{240 \text{ mg}}{x \text{ mL}}$ Now, cross-multiplying to solve for x : $80 \text{ mg} \cdot x \text{ mL} = 240 \text{ mg} \cdot 0.8 \text{ mL}$ Calculating the right

9. A box has a square base of 5 feet in length, a width of 5 feet, and a height of h feet. If the volume of the rectangular solid is 200 cubic feet, which equation may be used to find h ?

A. $5h = 200$

B. $5h^2 = 200$

C. $25h = 200$

D. $h = 200 \div 5$

To determine the correct equation to find the height (h) of the box, we start with the formula for the volume of a rectangular solid, which is given by: $\text{Volume} = \text{length} \times \text{width} \times \text{height}$. In this scenario, the dimensions of the box are defined as follows: the length is 5 feet, the width is also 5 feet, and the height is h feet. Plugging in these values into the volume formula gives us: $\text{Volume} = 5 \times 5 \times h$. This simplifies to: $\text{Volume} = 25h$. Since we know the volume of the box is 200 cubic feet, we set the equation equal to 200: $25h = 200$. This equation, $25h = 200$, allows us to isolate h by dividing both sides by 25, which leads us to finding the height of the box. This is why the equation $25h = 200$ is suitable for finding h in this

10. On a highway map, 1 inch represents 45 miles. If the distance on the map is 3.2 inches, how far is the actual distance?

A. 45 miles

B. 54 miles

C. 112 miles

D. 144 miles

To determine the actual distance represented by 3.2 inches on the map, it's essential to use the given conversion rate of 1 inch equaling 45 miles. By multiplying the distance on the map (3.2 inches) by the number of miles each inch represents (45 miles), you obtain the actual distance. The calculation can be set up as follows: Actual distance = Distance on the map $\times$ Miles per inch. Actual distance = 3.2 inches $\times$ 45 miles/inch. Actual distance = 144 miles. Therefore, the calculation confirms that 3.2 inches on the map translates to an actual distance of 144 miles. Understanding and applying the scale provided on the map is crucial in solving these types of problems effectively.

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://teas-maths.examzify.com>

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

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