

NATIONAL TESTING NETWORK (NTN) FIREFIGHTER TESTING SYSTEM (FIRETEAM) MATH PRACTICE TEST (SAMPLE)

STUDY GUIDE



**SAMPLE STUDY GUIDE
WITH LIMITED QUESTIONS**

**VISIT US ONLINE FOR
THE FULL VERSION STUDY GUIDE**

<https://ntn-firefightertestingsystemmath.examzify.com>



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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. The total weight of all equipment on a fire truck is 5,600 pounds. If it can carry a maximum of 8,000 pounds, how much more weight can it carry?
 - A. 1,800 pounds
 - B. 2,400 pounds
 - C. 3,200 pounds
 - D. 4,000 pounds
2. If a firefighter has 8 minutes to extinguish a fire and he spends 2 minutes looking for equipment, how much time is left for extinguishing the fire?
 - A. 4 minutes
 - B. 6 minutes
 - C. 2 minutes
 - D. 8 minutes
3. If a firefighter must climb a ladder that is placed at a 75-degree angle and the ladder is 20 feet long, how high can the firefighter reach?
 - A. 15 feet
 - B. 17.3 feet
 - C. 19.3 feet
 - D. 20 feet
4. What is 3,184 divided by 1600 represented as a fraction?
 - A. $\frac{1}{4}$
 - B. $\frac{1}{2}$
 - C. $\frac{3}{4}$
 - D. $\frac{5}{8}$
5. By how much does 30 exceed 5?
 - A. 25
 - B. 27
 - C. 23
 - D. 20

6. How many square yards are in a rectangular area measuring 300 square feet?
- A. 25 square yards
 - B. 50 square yards
 - C. 33.33 square yards
 - D. 40 square yards
7. If a firefighter extinguishes a fire that burned an area of 3 acres, with each acre having 43,560 square feet, how many total square feet were burned?
- A. 120,000 square feet
 - B. 130,680 square feet
 - C. 150,000 square feet
 - D. 140,000 square feet
8. What do you get when you subtract 30 from 30?
- A. 4
 - B. 3
 - C. 1
 - D. 0
9. What is the result of $30 - 19$?
- A. 12
 - B. 11
 - C. 10
 - D. 9
10. A firefighter can climb a ladder at a speed of 4 feet per second. How long will it take to climb a 20-foot ladder?
- A. 4 seconds
 - B. 5 seconds
 - C. 6 seconds
 - D. 7 seconds

Answers

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

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Explanations

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1. The total weight of all equipment on a fire truck is 5,600 pounds. If it can carry a maximum of 8,000 pounds, how much more weight can it carry?

- A. 1,800 pounds
- B. 2,400 pounds**
- C. 3,200 pounds
- D. 4,000 pounds

To find out how much more weight the fire truck can carry, you need to subtract the total weight of the equipment from the maximum weight the truck can handle. The maximum weight capacity of the truck is 8,000 pounds, and the total weight of the equipment currently on the truck is 5,600 pounds. By performing the subtraction: 8,000 pounds (maximum capacity) - 5,600 pounds (current weight) = 2,400 pounds. This calculation shows that the fire truck can still carry an additional weight of 2,400 pounds. Understanding this principle of subtraction is key to solving similar problems involving capacity and current usage.

2. If a firefighter has 8 minutes to extinguish a fire and he spends 2 minutes looking for equipment, how much time is left for extinguishing the fire?

- A. 4 minutes
- B. 6 minutes**
- C. 2 minutes
- D. 8 minutes

To determine how much time is left for extinguishing the fire, start by identifying the total time available, which is 8 minutes. The firefighter spends 2 minutes looking for equipment. Subtracting this 2 minutes from the total time gives you the remaining time available for extinguishing the fire. So the calculation is: 8 minutes (total time) - 2 minutes (time spent looking for equipment) = 6 minutes remaining for extinguishing the fire. This means that after accounting for the time spent seeking the necessary gear, 6 minutes are left for the actual task of firefighting. This is why the answer is correct.

3. If a firefighter must climb a ladder that is placed at a 75-degree angle and the ladder is 20 feet long, how high can the firefighter reach?

- A. 15 feet
- B. 17.3 feet
- C. 19.3 feet**
- D. 20 feet

To determine how high a firefighter can reach when climbing a ladder placed at a 75-degree angle, we can use some trigonometric principles. Specifically, we will use the sine function, which relates the angle of elevation to the height reached. In this scenario, the ladder acts as the hypotenuse of a right triangle, with the vertical height being the opposite side to the angle of 75 degrees. The ladder's length is the hypotenuse, which is 20 feet. Therefore, we can express the height reached as: $\text{height} = \text{hypotenuse} \times \sin(\text{angle})$. Substituting the given values into the formula: $\text{height} = 20 \times \sin(75 \text{ degrees})$. Using a scientific calculator or a sine table, we find that the sine of 75 degrees is approximately 0.9659. Now, we can compute: $\text{height} \approx 20 \times 0.9659$ $\text{height} \approx 19.318$ feet. Rounding this to one decimal place gives us approximately 19.3 feet, which matches the value in the specified choice. This means the firefighter can reach about 19.3 feet up the ladder when placed at a 75-degree angle.

4. What is 3,184 divided by 1600 represented as a fraction?

A. $\frac{1}{4}$

B. $\frac{1}{2}$

C. $\frac{3}{4}$

D. $\frac{5}{8}$

To express 3,184 divided by 1,600 as a fraction, the first step is to set it up as $\left(\frac{3184}{1600}\right)$. Next, simplify this fraction by finding the greatest common divisor (GCD) of both numbers. The GCD of 3184 and 1600 can be calculated by prime factorization or using the Euclidean algorithm. However, for practical purposes, we can simplify directly by dividing both the numerator and the denominator by common factors. After simplifying $\left(\frac{3184}{1600}\right)$, you might find that both the numerator and the denominator can be reduced significantly. When carrying out the division, you actually get a decimal form, which is (1.99) . When you convert this back into fraction form, it approaches a value just under 2. Now focusing on how $\left(\frac{3,184}{1,600}\right)$ simplifies down: When the fraction is accurately reduced, it results in $\left(\frac{79}{40}\right)$. This decimal corresponds to (1.975) , which is closest to (2) . However, since the question is framed regarding the standard fraction forms listed, we can

5. By how much does 30 exceed 5?

A. 25

B. 27

C. 23

D. 20

To determine how much 30 exceeds 5, you simply subtract 5 from 30. This calculation gives you: $30 - 5 = 25$. This result indicates that 30 is 25 units greater than 5. The question is asking for the difference between the two numbers, which is why the subtraction method is appropriate. This understanding is critical in various mathematical contexts, especially for scenarios that involve comparing quantities or calculating differences, such as in statistics, budgeting, or even spatial measurements. Therefore, the correct answer is 25, demonstrating that 30 surpasses 5 by this amount.

6. How many square yards are in a rectangular area measuring 300 square feet?

A. 25 square yards

B. 50 square yards

C. 33.33 square yards

D. 40 square yards

To determine how many square yards are in a rectangular area of 300 square feet, it's important to know the conversion factor between square feet and square yards. One square yard equals 9 square feet, since a yard is 3 feet long, and when calculating area, you square the length. To convert square feet to square yards, you can divide the area in square feet by 9 (the number of square feet in one square yard). In this case, you would perform the following calculation: $\left[300 \text{ square feet} \div 9 \text{ square feet per square yard} = 33.33 \text{ square yards}\right]$. This calculation shows that 300 square feet is equivalent to about 33.33 square yards. Therefore, this is the correct interpretation of the question, demonstrating an understanding of unit conversion from square feet to square yards.

7. If a firefighter extinguishes a fire that burned an area of 3 acres, with each acre having 43,560 square feet, how many total square feet were burned?

- A. 120,000 square feet
- B. 130,680 square feet**
- C. 150,000 square feet
- D. 140,000 square feet

To determine the total square feet burned in an area of 3 acres, you first need to convert acres into square feet. Each acre contains 43,560 square feet. Therefore, you multiply the number of acres, which is 3, by the number of square feet per acre. The calculation is as follows: $3 \text{ acres} \times 43,560 \text{ square feet/acre} = 130,680 \text{ square feet}$. This calculation provides the total area that was burned, which is essential for understanding the impact of the fire and for planning any necessary follow-up actions. Since the result of 130,680 square feet corresponds to the correct answer choice, it clearly demonstrates the relationship between acres and square feet in this context.

8. What do you get when you subtract 30 from 30?

- A. 4
- B. 3
- C. 1
- D. 0**

When you subtract 30 from 30, you are essentially calculating how much remains when you take away the entire amount from itself. The operation can be written mathematically as: $30 - 30 = 0$. This equation shows that when you have a number and you subtract that same number, the result is zero. The concept can be understood as the idea of an equal amount being compared: if you have something and you remove exactly that same quantity, nothing is left. Thus, the correct answer is 0, as it reflects the outcome of this subtraction operation accurately. Other numbers, such as 1, 3, and 4, do not represent the result of this subtraction, as they do not result from taking away the full amount of 30.

9. What is the result of 30-19?

- A. 12
- B. 11**
- C. 10
- D. 9

To find the result of 30 minus 19, you start with the larger number, which is 30. Then, you subtract 19 from it. When performing the subtraction: 1. Begin with 30. 2. Subtract 19. You can break it down into parts if that makes it easier: - First, subtract 10 from 30, which gives you 20. - Then, subtract an additional 9 from 20. This operation results in $20 - 9 = 11$. Thus, the final result of 30 minus 19 is 11. Recognizing that subtraction is the process of finding the difference between two numbers is essential in understanding how we arrive at the answer.

10. A firefighter can climb a ladder at a speed of 4 feet per second. How long will it take to climb a 20-foot ladder?

- A. 4 seconds
- B. 5 seconds
- C. 6 seconds**
- D. 7 seconds

To determine how long it will take the firefighter to climb a 20-foot ladder at a speed of 4 feet per second, you can use the formula for time, which is distance divided by speed. In this scenario, the distance the firefighter needs to climb is 20 feet, and the speed at which they are climbing is 4 feet per second. Using the formula: $\text{Time} = \text{Distance} / \text{Speed}$ $\text{Time} = 20 \text{ feet} / 4 \text{ feet per second}$ $\text{Time} = 5 \text{ seconds}$ This calculation shows that it takes 5 seconds to climb the ladder. This result matches the second choice, indicating that it is indeed the correct answer. Understanding this process emphasizes the importance of basic principles of speed, distance, and time in solving similar problems efficiently.

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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://ntn-firefightertestingsystemmath.examzify.com>

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

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