National Testing Network (NTN) Firefighter Testing System (FireTEAM) Math Practice Test (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

1. If a firefighter walks 3 miles on the job and then runs 2 miles, how many total feet did the firefighter cover?

A. 26400 feet

B. 30000 feet

C. 25040 feet

D. 23000 feet

2. What is the answer to 30-3?

A. 26

B. 27

C. 28

D. 25

3. If a fire truck can pump 500 gallons of water per minute, how much water can it pump in 8 minutes?

A. 3000 gallons

B. 3500 gallons

C. 4000 gallons

D. 4500 gallons

4. If a fire truck consumes 12 gallons of diesel fuel for every 100 miles traveled, how much fuel is used after traveling 350 miles?

A. 30 gallons

B. 36 gallons

C. 42 gallons

D. 48 gallons

5. What is the total length of 13 sections of hose if each section is 50 feet?

A. 600 feet

B. 650 feet

C. 700 feet

D. 750 feet

6. What is the result of 30-17?

A. 13

B. 12

C. 11

D. 14

7. If a building is 50 feet wide and 80 feet long, what is the perimeter of the building?

A. 260 feet

B. 300 feet

C. 400 feet

D. 140 feet

8. If a firefighter carries a ladder that weighs 45 pounds, and they carry two ladders, what is the total weight?

A. 70 pounds

B. 90 pounds

C. 110 pounds

D. 100 pounds

9. What is the result of 30 minus 12?

A. 16

B. 17

C. 18

D. 19

10. What is the result of 30 minus 6?

A. 22

B. 23

C. 24

D. 25

Answers

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

Explanations

1. If a firefighter walks 3 miles on the job and then runs 2 miles, how many total feet did the firefighter cover?

A. 26400 feet

B. 30000 feet

C. 25040 feet

D. 23000 feet

To find out how many total feet the firefighter covered after walking and running, it is essential to first convert the miles into feet. One mile is equal to 5,280 feet. The firefighter walked 3 miles and ran 2 miles. To calculate the total distance in miles: Total miles = 3 miles (walking) + 2 miles (running) = 5 miles. Now, converting that total distance into feet: Total feet = 5 miles × 5,280 feet/mile = 26,400 feet. This number, 26,400 feet, is indeed the total distance covered by the firefighter. Therefore, the choice that gives this total distance is the correct answer. Understanding the conversions from miles to feet is key to solving these types of problems effectively.

2. What is the answer to 30-3?

A. 26

B. 27

C. 28

D. 25

The expression 30 - 3 involves basic subtraction, where you take the number 3 away from 30. To solve this, you start with 30 and count backwards 3 units. When you subtract 3 from 30, you are left with 27. This means, after taking away 3 from 30, the result is 27. Therefore, this value corresponds accurately to the mathematical operation performed. Understanding basic subtraction is essential as it is a foundational skill in mathematics used in various practical situations, including those encountered in professions like firefighting, where numerical accuracy is critical for calculations related to measurements and resource management.

3. If a fire truck can pump 500 gallons of water per minute, how much water can it pump in 8 minutes?

A. 3000 gallons

B. 3500 gallons

C. 4000 gallons

D. 4500 gallons

To determine how much water the fire truck can pump in 8 minutes, you need to multiply the rate at which it pumps water by the time it operates. The truck pumps water at a rate of 500 gallons per minute. When you multiply 500 gallons per minute by 8 minutes, you perform the calculation: 500 gallons/minute × 8 minutes = 4000 gallons. This means that in 8 minutes, the truck is capable of pumping a total of 4000 gallons of water. Understanding the multiplication of rates and time is crucial in various scenarios, especially in firefighting, where knowing the amount of water available can significantly impact effectiveness in managing a fire. This approach clarifies how to apply basic multiplication to find the total amount based on a given rate and duration, making it applicable for real-world calculations in the field.

4. If a fire truck consumes 12 gallons of diesel fuel for every 100 miles traveled, how much fuel is used after traveling 350 miles?

A. 30 gallons

B. 36 gallons

C. 42 gallons

D. 48 gallons

To determine how much fuel the fire truck uses after traveling 350 miles, we start with the fuel consumption rate, which is 12 gallons for every 100 miles. First, we can set up a proportion to find out how much fuel is consumed per mile. Since the truck uses 12 gallons for 100 miles, we can calculate the gallons used per mile as follows: 12 gallons / 100 miles = 0.12 gallons per mile. Now, to find out how much fuel is consumed over 350 miles, we multiply the fuel consumed per mile (0.12 gallons) by the distance traveled (350 miles): 0.12 gallons/mile * 350 miles = 42 gallons. Thus, after traveling 350 miles, the fire truck consumes 42 gallons of diesel fuel, making this the correct answer. This method allows us to clearly relate the distance traveled to the amount of fuel used based on the established consumption rate.

5. What is the total length of 13 sections of hose if each section is 50 feet?

A. 600 feet

B. 650 feet

C. 700 feet

D. 750 feet

To determine the total length of 13 sections of hose when each section is 50 feet, you need to perform a multiplication operation. The formula to calculate the total length is: Total Length = Number of Sections × Length of Each Section. In this case, you multiply the number of sections (13) by the length of each section (50 feet): Total Length = 13 × 50 = 650 feet. This calculation accurately reflects the total length of the hose based on the number of sections and the length of each section. Thus, this answer corresponds to the total feet of hose available and confirms a clear understanding of basic multiplication in a practical context.

6. What is the result of 30-17?

A. 13

B. 12

C. 11

D. 14

To find the result of 30 minus 17, you can treat this as a simple subtraction problem. Start with the number 30 and take away 17. When you do the math, you subtract 17 from 30. Here's how you can work it out step-by-step: 1. Start with 30. 2. Subtract 10 from 30, which gives you 20. 3. Then, subtract the remaining 7 from 20, resulting in 13. Therefore, after performing the subtraction, the final result you obtain is 13. This makes it clear that the answer aligns correctly with the original calculation you performed. Understanding basic subtraction is vital not only in math tests but also in practical applications, such as managing budgets or resources in firefighting operations.

7. If a building is 50 feet wide and 80 feet long, what is the perimeter of the building?

A. 260 feet

B. 300 feet

C. 400 feet

D. 140 feet

To find the perimeter of a rectangular building, you use the formula for the perimeter, which is given by: Perimeter = 2 × (length + width) In this case, the length of the building is 80 feet and the width is 50 feet. Plugging these values into the formula: Perimeter = 2 × (80 + 50) Perimeter = 2 × 130 Perimeter = 260 feet Thus, the perimeter of the building is 260 feet, which matches the calculation. The perimeter represents the total distance around the outside of the building, and it is crucial in various applications such as planning for fencing, landscaping, or emergency access routes. This makes the calculation of the perimeter important for assessments in firefighting and building safety compliance.

8. If a firefighter carries a ladder that weighs 45 pounds, and they carry two ladders, what is the total weight?

A. 70 pounds

B. 90 pounds

C. 110 pounds

D. 100 pounds

To determine the total weight of the two ladders, you start by noting the weight of one ladder, which is given as 45 pounds. When carrying two ladders, you simply multiply the weight of a single ladder by the number of ladders: 45 pounds (weight of one ladder) × 2 (number of ladders) = 90 pounds. Thus, the total weight that the firefighter is carrying is 90 pounds. This calculation aligns perfectly with the reported answer, confirming it as the correct choice.

9. What is the result of 30 minus 12?

A. 16

B. 17

C. 18

D. 19

The calculation of 30 minus 12 involves straightforward subtraction. To find the result, you take the number 12 away from 30. Starting with 30, if you subtract 12, you can think of this in simpler steps. First, if you subtract 10 from 30, you would get 20. Then, subtracting the remaining 2 from 20 results in 18. Therefore, when 12 is subtracted from 30, the answer is indeed 18. This clear method of breaking down the subtraction helps in verifying the final result, which is essential in mathematical operations, especially in exam settings like the FireTEAM assessments.

10. What is the result of 30 minus 6?

A. 22

B. 23

C. 24

D. 25

To find the result of 30 minus 6, you perform a simple subtraction operation. You start with the number 30 and take away 6 from it. When you subtract 6 from 30, you are essentially asking how many units remain after removing 6 from the total. Performing the calculation: 30 - 6 = 24 This shows that the remaining value after subtracting 6 from 30 is 24. Therefore, the correct answer is indeed the number that represents this calculation. The result is confirmed to be 24, reflecting the value left after the subtraction process.

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!