ARMED FORCES CLASSIFICATION TEST (AFCT) ARITHMETIC REASONING 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.

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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!

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Questions

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1. **A recipe calls for 4 1/3 cups of flour. How much flour is needed to make 1 1/2 times the recipe?**

   A. 6 cups

   B. 5 1/2 cups

   C. 6 1/2 cups

   D. 7 cups

2. **What is the total area of a square with a side length of 4 feet?**

   A. 16 square feet

   B. 12 square feet

   C. 20 square feet

   D. 10 square feet

3. **In a school, there are 300 students. If 60% of them are boys, how many boys are there?**

   A. 180 boys

   B. 150 boys

   C. 120 boys

   D. 200 boys

4. **If one degree is equal to 60 minutes, how many minutes are in 22 ½ degrees?**

   A. 1200

   B. 1350

   C. 1500

   D. 1800

5. **A car sold for $15,000 depreciates by 10% each year. What will it be worth after one year?**

   A. $11,000

   B. $12,000

   C. $13,500

   D. $14,000

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6. If 3 laps account for ¼ of a mile, then how many miles do 8 laps represent?

A. 1/2 mile

B. 1/4 mile

C. 3/4 mile

D. 2/3 mile

7. Which of the following is the correct calculation to find the area of a rectangular backyard that measures 75 meters by 50 meters?

A. 3750 m^2

B. 1500 m^2

C. 8000 m^2

D. 3000 m^2

8. If a car travels 60 miles in 1 hour, how far will it travel in 3 hours?

A. 120 miles

B. 150 miles

C. 180 miles

D. 200 miles

9. If a train leaves at 2:00 PM and arrives at its destination at 4:30 PM, how long is the journey?

A. 1 hour 30 minutes

B. 2 hours

C. 2 hours 30 minutes

D. 3 hours

10. If a train travels at 80 miles per hour, how far will it travel in 2.5 hours?

A. 160 miles

B. 200 miles

C. 180 miles

D. 240 miles

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Answers

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

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Explanations

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1. A recipe calls for 4 1/3 cups of flour. How much flour is needed to make 1 1/2 times the recipe?

A. 6 cups

B. 5 1/2 cups

C. 6 1/2 cups

D. 7 cups

To determine how much flour is needed to make 1 1/2 times the recipe, you first need to convert the mixed number in the recipe into an improper fraction. The recipe calls for 4 1/3 cups of flour, which can be converted as follows: 1. Multiply the whole number (4) by the denominator (3): $4 \times 3 = 12$. 2. Add the numerator (1) to that result: $12 + 1 = 13$. 3. The result is $13/3$ cups of flour. Now, to find out how much flour is needed for 1 1/2 times the recipe, you multiply $13/3$ by $1 1/2$ (which is equivalent to $3/2$). This can be calculated as follows: $$\left(\frac{13}{3}\right) \times \left(\frac{3}{2}\right) = \frac{13 \times 3}{3 \times 2} = \frac{39}{6}$$ Now simplify $\frac{39}{6}$: 1. Divide the numerator and the denominator by 3 to

2. What is the total area of a square with a side length of 4 feet?

A. 16 square feet

B. 12 square feet

C. 20 square feet

D. 10 square feet

To find the total area of a square, you use the formula for the area, which is side length multiplied by itself, or $A = s \times s$, where s represents the length of one side of the square. In this case, the side length of the square is given as 4 feet. So, you would calculate the area as follows: $$A = 4 \, \text{feet} \times 4 \, \text{feet} = 16 \, \text{square feet}$$ Thus, the area of the square is 16 square feet. This matches the correct answer, confirming that when the side length is 4 feet, the total area calculated accurately shows the result of 16 square feet. This understanding of the area formula ensures that one can effectively calculate areas of squares in various contexts.

3. In a school, there are 300 students. If 60% of them are boys, how many boys are there?

A. 180 boys

B. 150 boys

C. 120 boys

D. 200 boys

To determine the number of boys in the school, you need to calculate 60% of the total number of students, which is 300. The calculation involves converting the percentage into a decimal for easier multiplication. Here, 60% as a decimal is 0.60. Therefore, you would multiply the total number of students by this decimal: 300 students × 0.60 = 180 boys. This means there are indeed 180 boys in the school. Understanding how to convert percentages into decimals and perform the multiplication is crucial for solving similar problems involving proportions and quantities.

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4. If one degree is equal to 60 minutes, how many minutes are in 22 ½ degrees?

A. 1200

B. 1350

C. 1500

D. 1800

*To determine how many minutes are in 22 ½ degrees, it's essential to remember that one degree is equivalent to 60 minutes. First, convert 22 ½ degrees into a more manageable form. The fraction ½ can be converted to minutes by multiplying it by 60. Thus, ½ degree translates to: ½ * 60 = 30 minutes. Now, add this to the number of minutes in the whole degrees. Since there are 22 degrees, we can calculate the total minutes in those degrees: 22 degrees * 60 minutes/degree = 1320 minutes. Next, incorporating the 30 additional minutes gives: 1320 minutes + 30 minutes = 1350 minutes. This calculation illustrates that 22 ½ degrees is indeed equal to 1350 minutes, supporting that this is the correct answer. By applying the relationship between degrees and minutes through simple multiplication and addition, we arrive at the total minutes effectively.*

5. A car sold for $15,000 depreciates by 10% each year. What will it be worth after one year?

A. $11,000

B. $12,000

C. $13,500

D. $14,000

To calculate the value of the car after one year of depreciation, you start with the original price of the car, which is $15,000. The car depreciates at a rate of 10% per year. First, you need to determine the amount of depreciation for one year: 10% of $15,000 is found by multiplying $15,000 by 0.10: $$ 0.10 \times 15,000 = 1,500 $$ This amount represents the decrease in value after one year. Now, to find the car's worth after one year, subtract the depreciation from the original price: $$ 15,000 - 1,500 = 13,500 $$ This calculation shows that after one year, the car will be valued at $13,500. This answer demonstrates the basic principle of depreciation in which a set percentage is deducted from the original value to determine the new worth of an asset over time.

6. If 3 laps account for ¼ of a mile, then how many miles do 8 laps represent?

A. 1/2 mile

B. 1/4 mile

C. 3/4 mile

D. 2/3 mile

To determine how many miles 8 laps represent when 3 laps equal ¼ of a mile, we first find out the distance per lap. From the information given, if 3 laps account for ¼ of a mile, we can calculate the distance of one lap by dividing the total distance (¼ mile) by the number of laps (3): \[\text{Distance per lap} = \frac{1/4 \text{ mile}}{3} = \frac{1}{4 \times 3} = \frac{1}{12} \text{ miles per lap} \] Now that we know the distance for one lap, we can find the distance for 8 laps by multiplying the distance of one lap by 8: \[\text{Distance for 8 laps} = 8 \times \frac{1}{12} = \frac{8}{12} = \frac{2}{3} \text{ miles} \] This calculation demonstrates that 8 laps represent 2/3 of a mile. It is important to ensure that the operations conducted were correct, and they validate that considering the distance covered for each lap leads us to the accurate total for 8 laps.

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7. Which of the following is the correct calculation to find the area of a rectangular backyard that measures 75 meters by 50 meters?

A. 3750 m^2

B. 1500 m^2

C. 8000 m^2

D. 3000 m^2

To find the area of a rectangular backyard, you use the formula: Area = Length × Width In this case, the dimensions of the backyard are given as 75 meters for the length and 50 meters for the width. Therefore, you would calculate the area as follows: Area = 75 m × 50 m = 3750 m^2 This calculation shows that the area of the backyard is 3750 square meters. The value of 3750 m^2 accurately represents the product of the two dimensions specified. When dealing with area, it's essential to ensure that both measurements are in the same unit, which they are in this case (meters). Thus, the correct answer reflects the proper application of the formula for calculating the area of a rectangle.

8. If a car travels 60 miles in 1 hour, how far will it travel in 3 hours?

A. 120 miles

B. 150 miles

C. 180 miles

D. 200 miles

To determine how far the car will travel in 3 hours, we start with the given speed of the car, which is 60 miles per hour. This means that in each hour, the car covers a distance of 60 miles. To find the total distance traveled in 3 hours, we can multiply the speed (60 miles per hour) by the time (3 hours): Total Distance = Speed × Time Total Distance = 60 miles/hour × 3 hours = 180 miles. Thus, the car will travel a total of 180 miles in 3 hours. This aligns with the choice that states 180 miles, making it the correct answer. Understanding this relationship between speed, time, and distance is key in solving similar problems.

9. If a train leaves at 2:00 PM and arrives at its destination at 4:30 PM, how long is the journey?

A. 1 hour 30 minutes

B. 2 hours

C. 2 hours 30 minutes

D. 3 hours

To determine the duration of the train journey, you need to calculate the time from the departure at 2:00 PM to the arrival at 4:30 PM. Start by identifying the hours from 2:00 PM to 4:00 PM, which is a straightforward 2 hours. After reaching 4:00 PM, you then need to count the additional time up to 4:30 PM. This adds another 30 minutes to the journey. When you combine the 2 hours with the additional 30 minutes, you arrive at a total of 2 hours and 30 minutes for the entire journey. This calculation shows that the correct answer reflects the accurate sum of the time spent during the trip.

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10. If a train travels at 80 miles per hour, how far will it travel in 2.5 hours?

A. 160 miles

B. 200 miles

C. 180 miles

D. 240 miles

To determine how far the train will travel in 2.5 hours at a speed of 80 miles per hour, you can use the formula for distance, which is: Distance = Speed × Time. Here, the speed of the train is 80 miles per hour and the time is 2.5 hours. By substituting the given values into the formula: Distance = 80 miles/hour × 2.5 hours. Now, performing the calculation: 80 multiplied by 2.5 equals 200. Thus, the train will travel a distance of 200 miles in 2.5 hours. This consideration of basic multiplication of speed and time provides the answer, confirming that the choice is correct based on the straightforward application of the formula.

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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://afct-arithmeticreasoning.examzify.com

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

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