

ARMED FORCES CLASSIFICATION TEST (AFCT) ARITHMETIC REASONING PRACTICE TEST (SAMPLE) STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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THE FULL VERSION STUDY GUIDE

<https://afct-arithmeticreasoning.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. If a train travels at 60 miles per hour for 2 hours, how far does it travel?
 - A. 90 miles
 - B. 120 miles
 - C. 150 miles
 - D. 180 miles
2. If a person reads 30 pages of a book every day, how many pages will they read in a week?
 - A. 150 pages
 - B. 210 pages
 - C. 240 pages
 - D. 300 pages
3. If 270 square feet is equivalent to $\frac{3}{4}$ acre, how many acres do you have if you own 4,320 square feet?
 - A. 5
 - B. 10
 - C. 15
 - D. 12
4. What is the area covered by a circular sprinkler if the diameter is 40ft?
 - A. 1,256 sq ft
 - B. 1,570.8 sq ft
 - C. 3,141.6 sq ft
 - D. 1,700 sq ft
5. A baker has 200 cookies. If he packs them into boxes of 25, how many boxes does he fill?
 - A. 6 boxes
 - B. 7 boxes
 - C. 8 boxes
 - D. 9 boxes

6. 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
7. A car travels 60 miles in 1 hour. At this rate, how far will it travel in 4 hours?
- A. 240 miles
 - B. 200 miles
 - C. 150 miles
 - D. 180 miles
8. If the temperature is -5 degrees F and drops by 6 degrees after 3 hours, what is the new temperature?
- A. -11 degrees F
 - B. -5 degrees F
 - C. -12 degrees F
 - D. -2 degrees F
9. If 180 is divided by 9, what is the result?
- A. 18
 - B. 20
 - C. 22
 - D. 24
10. What is the temperature at noon if it dropped 9 degrees Celsius from 3 degrees Celsius?
- A. -6 degrees
 - B. -3 degrees
 - C. 0 degrees
 - D. 3 degrees

Answers

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

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Explanations

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1. If a train travels at 60 miles per hour for 2 hours, how far does it travel?

- A. 90 miles
- B. 120 miles**
- C. 150 miles
- D. 180 miles

To determine how far the train travels, you can use the formula for distance, which is: $\text{Distance} = \text{Speed} \times \text{Time}$. In this scenario, the speed of the train is given as 60 miles per hour, and the time it travels is 2 hours. By substituting the values into the formula, you calculate: $\text{Distance} = 60 \text{ miles per hour} \times 2 \text{ hours} = 120 \text{ miles}$. This calculation shows that the train travels a total distance of 120 miles during the 2-hour period at that speed. Therefore, the choice indicating 120 miles is the correct answer.

2. If a person reads 30 pages of a book every day, how many pages will they read in a week?

- A. 150 pages
- B. 210 pages**
- C. 240 pages
- D. 300 pages

To determine how many pages a person will read in a week when they read 30 pages each day, you multiply the daily amount by the number of days in a week. There are 7 days in a week, so the calculation is as follows: $30 \text{ pages/day} \times 7 \text{ days/week} = 210 \text{ pages/week}$. Thus, the person will read a total of 210 pages in a week, making this the correct answer. This method of multiplication effectively aggregates the total pages read across the week based on the consistent daily reading habit.

3. If 270 square feet is equivalent to $\frac{3}{4}$ acre, how many acres do you have if you own 4,320 square feet?

- A. 5
- B. 10
- C. 15
- D. 12**

To determine how many acres are contained in 4,320 square feet when you know that 270 square feet is equivalent to $\frac{3}{4}$ acre, you can set up a conversion based on the ratio of square feet to acres. Firstly, you can find out how many square feet are in one full acre. Since $\frac{3}{4}$ acre equals 270 square feet, you can determine the size of one acre by calculating: $1 \text{ acre} = 270 \text{ square feet} \div (\frac{3}{4}) = 270 \text{ square feet} \times (\frac{4}{3}) = 360 \text{ square feet}$. Now, knowing that 1 acre equals 360 square feet (which is the standard conversion for acres), you can validate this calculation: - 360 square feet is incorrect, as it does not align with the known conversion. So instead, using the ratio provided, 270 square feet corresponding to $\frac{3}{4}$ acre can help find the total square feet in one acre: $1 \text{ acre} = (270 \text{ square feet}) / (\frac{3}{4}) = 270 \times (\frac{4}{3}) = 360 \text{ square feet total}$ in equivalency measure will yield the reasoning used in the ratios suggesting more extensive area conversions. Now, you can set up a proportion to find the number of acres in

4. What is the area covered by a circular sprinkler if the diameter is 40ft?

- A. 1,256 sq ft
- B. 1,570.8 sq ft**
- C. 3,141.6 sq ft
- D. 1,700 sq ft

To find the area covered by a circular sprinkler, we use the formula for the area of a circle, which is given by: $\text{Area} = \pi r^2$ where r is the radius of the circle. In this case, the diameter of the sprinkler is given as 40 feet. To find the radius, we divide the diameter by 2: $r = \frac{\text{diameter}}{2} = \frac{40\text{ft}}{2} = 20\text{ft}$ Now, we can substitute the radius into the area formula: $\text{Area} = \pi (20\text{ft})^2$ Calculating this, we first square the radius: $(20\text{ft})^2 = 400\text{ft}^2$ Then we multiply by π : $\text{Area} = \pi \times 400\text{ft}^2$ Using the approximate value of π (3.14), we can calculate the area: $\text{Area} \approx 3.14 \times 400\text{ft}^2 \approx 1256\text{ft}^2$ However, for more precision, using a more accurate value for π

5. A baker has 200 cookies. If he packs them into boxes of 25, how many boxes does he fill?

- A. 6 boxes
- B. 7 boxes
- C. 8 boxes**
- D. 9 boxes

To determine how many boxes the baker can fill with 200 cookies when each box can hold 25 cookies, you need to perform a division operation. Specifically, you divide the total number of cookies by the number of cookies each box can hold. In this case, you take 200 cookies and divide it by 25 cookies per box. Calculating this gives you: $200 \div 25 = 8$ This result indicates that the baker can fill 8 complete boxes with 200 cookies, utilizing all the cookies without any leftover. The correct answer reflects a straightforward application of division to solve the problem of how many full boxes can be filled given the total number of items and the capacity per box. This calculation is essential in arithmetic reasoning as it applies basic mathematical principles to real-world scenarios.

6. 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: $A = 4 \times 4 = 16$ 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.

7. A car travels 60 miles in 1 hour. At this rate, how far will it travel in 4 hours?

A. 240 miles

B. 200 miles

C. 150 miles

D. 180 miles

To determine how far the car will travel in 4 hours at a constant speed of 60 miles per hour, you can use the formula for distance, which is: $\text{Distance} = \text{Speed} \times \text{Time}$. In this case, the speed of the car is 60 miles per hour, and the time is 4 hours. Substituting the values into the formula gives: $\text{Distance} = 60 \text{ miles/hour} \times 4 \text{ hours}$. When you perform the multiplication: $\text{Distance} = 240 \text{ miles}$. This calculation shows that at a speed of 60 miles per hour, the car will cover a distance of 240 miles in 4 hours. Therefore, the correct answer is 240 miles, as it is the product of the speed and the time.

8. If the temperature is -5 degrees F and drops by 6 degrees after 3 hours, what is the new temperature?

A. -11 degrees F

B. -5 degrees F

C. -12 degrees F

D. -2 degrees F

To find the new temperature after the drop, you start with the initial temperature of -5 degrees Fahrenheit. Since the temperature drops by 6 degrees, you perform the following calculation: $-5 \text{ degrees F} - 6 \text{ degrees} = -11 \text{ degrees F}$. This means that after the 6-degree drop, the new temperature is -11 degrees F. The calculation is straightforward; you subtract the degree drop from the initial temperature to arrive at the final result. Therefore, the correct new temperature reflects a total decrease in warmth, leading to a lower figure on the thermometer. The other options represent temperatures that do not correctly apply the calculation of subtracting 6 degrees from -5 degrees, confirming that -11 degrees F is indeed the correct new temperature.

9. If 180 is divided by 9, what is the result?

A. 18

B. 20

C. 22

D. 24

To determine the result of dividing 180 by 9, you can think about how many times 9 fits into 180. The division can be performed directly: $180 \div 9 = 20$. You can also think about this in terms of multiplication to verify the division. If the answer is 20, then multiplying 20 back by 9 should yield the original number: $20 \times 9 = 180$. Since both direct division and multiplication check out, 20 is indeed the accurate quotient of 180 divided by 9. The choice indicating 18 might seem plausible on a superficial level, as it is a multiple of 9, but it does not fit accurately into how many times 9 can be contained in 180. Similarly, the other choices of 22 and 24 do not satisfy the same conditions, as they either exceed or fall short of the actual computation. Thus, the correct result is determined through basic arithmetic operations confirming that 20 is the true outcome of the division.

10. What is the temperature at noon if it dropped 9 degrees Celsius from 3 degrees Celsius?

A. -6 degrees

B. -3 degrees

C. 0 degrees

D. 3 degrees

To find the temperature at noon after it dropped 9 degrees Celsius from 3 degrees Celsius, you start from the initial temperature. At 3 degrees Celsius, if the temperature decreases by 9 degrees, you perform the calculation: $3 \text{ degrees Celsius} - 9 \text{ degrees Celsius} = -6 \text{ degrees Celsius}$. This calculation shows that the resulting temperature is -6 degrees Celsius, confirming that the correct choice is accurate based on the arithmetic operation performed. The context of the other options is that they either do not properly reflect the change in temperature or misinterpret the starting point altogether. Thus, -6 degrees is indeed the correct temperature at noon after accounting for the drop.

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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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