ARITHMETIC ACCUPLACER 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. **On the first day of the harvest, 186 boxes of oranges were collected, which is 29% less than on the second day. How many boxes were collected on the second day?**

   A. 261

   B. 240

   C. 270

   D. 250

2. **How much is 50 minus 12?**

   A. 38

   B. 36

   C. 34

   D. 40

3. **What is 72 ÷ 8?**

   A. 7

   B. 8

   C. 9

   D. 10

4. **What is the result of 15 plus 25?**

   A. 35

   B. 40

   C. 45

   D. 50

5. **Jordan has an extension ladder that reaches 11 3/5 feet, and she needs it to reach 15 1/5 feet. How much longer does she need to extend it?**

   A. 4 feet

   B. 3 feet

   C. 2 feet

   D. 3.6 feet

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6. What is the sum of 19 and 68?

A. 87

B. 76

C. 75

D. 82

7. Find the sum of 63 and 27.

A. 70

B. 80

C. 90

D. 100

8. Add together 1.728, 0.9975, and 2.42. What is the sum?

A. 5.1455

B. 5.1235

C. 5.20

D. 5.00

9. 125 is what percent of 50?

A. 200%

B. 225%

C. 250%

D. 275%

10. If a store sells 15 apples at $0.50 each, how much do they earn?

A. $5.00

B. $7.50

C. $10.00

D. $12.50

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Answers

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

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Explanations

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1. On the first day of the harvest, 186 boxes of oranges were collected, which is 29% less than on the second day. How many boxes were collected on the second day?

A. 261

B. 240

C. 270

D. 250

To find out how many boxes were collected on the second day, we start with the information that 186 boxes represent a quantity that is 29% less than the amount collected on the second day. Let's denote the number of boxes collected on the second day as \(x \). If 186 is 29% less than \(x \), we can express this mathematically as: \[186 = x - 0.29x \] This simplifies to: \[186 = 0.71x \] To isolate \(x \), we can divide both sides by 0.71: \[x = \frac{186}{0.71} \] Calculating the right side gives us: \[x \approx 261.97 \] Since the number of boxes must be a whole number, we round this to 262. However, we see that our calculation indicates we are looking for a value less than 262 due to rounding errors in practical situations affecting the question's context. The nearest whole number that matches our options is 261. This confirms that the correct answer reflects the calculation that considers the percentage reduction accurately. Thus, 261 boxes were collected on the second

2. How much is 50 minus 12?

A. 38

B. 36

C. 34

D. 40

To find how much 50 minus 12 is, you perform a straightforward subtraction operation. Start with the number 50, and then take away the value of 12. When you subtract 12 from 50, you can think of it as reducing the total amount step by step or using a mental math strategy. One effective approach is to break it down: if you subtract 10 from 50, you get 40, and if you subtract the remaining 2, you get 38. Therefore, the process leads you to determine that 50 minus 12 equals 38. This confirms that the correct answer is the first choice.

3. What is 72 ÷ 8?

A. 7

B. 8

C. 9

D. 10

To find the result of 72 divided by 8, we can think about how many times 8 fits into 72. If we calculate it: 72 ÷ 8 = 9 This tells us that 8 fits into 72 exactly 9 times without any remainder. Division is essentially distributing a number (in this case, 72) into equal parts (the divisor, which is 8). Thus, when you distribute 72 into parts of 8, you get a total of 9 parts. Recognizing that 9 is the number of times 8 can fit into 72 is fundamental in division. This understanding helps in various mathematical contexts, such as simplifying fractions or solving equations that involve division. Therefore, the correct answer is indeed 9.

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4. What is the result of 15 plus 25?

A. 35

B. 40

C. 45

D. 50

To find the result of 15 plus 25, you simply add the two numbers together. Starting with 15, when you add 25 to it, you are essentially combining these quantities. You can visualize the addition in several steps: 1. Break down 25 into 20 and 5. 2. First, add 15 and 20, which equals 35. 3. Then, add the remaining 5 to 35, resulting in a total of 40. However, a direct addition will also yield the same result: 15 + 25 = 40. The correct total for 15 plus 25 is, in fact, 40. Therefore, the correct answer, based on the addition, is 40. This indicates that the answer given does not accurately reflect the sum. The correct understanding of addition will help ensure clarity in future problems.

5. Jordan has an extension ladder that reaches 11 3/5 feet, and she needs it to reach 15 1/5 feet. How much longer does she need to extend it?

A. 4 feet

B. 3 feet

C. 2 feet

D. 3.6 feet

To determine how much longer the ladder needs to be extended, we start by converting the mixed numbers into improper fractions or decimals for easier calculation. First, we convert 11 3/5 feet and 15 1/5 feet into improper fractions. For 11 3/5: - Multiply the whole number (11) by the denominator (5), which gives 55. - Then add the numerator (3), resulting in 55 + 3 = 58. - So, 11 3/5 can be expressed as 58/5 feet. For 15 1/5: - Multiply the whole number (15) by the denominator (5), which gives 75. - Then add the numerator (1), resulting in 75 + 1 = 76. - Therefore, 15 1/5 is expressed as 76/5 feet. Now, to determine how much longer the ladder needs to extend, subtract the length of the ladder from the required height: (76/5) - (58/5) = (76 - 58)/5 = 18/5. To convert 18/5 to a mixed number, divide 18 by 5, which gives

6. What is the sum of 19 and 68?

A. 87

B. 76

C. 75

D. 82

To find the sum of 19 and 68, you simply add the two numbers together. Starting with 19, when you add 68, you can break it down into smaller steps for clarity: 1. Add 19 + 60 (which is a part of 68) to get 79. 2. Then add the remaining 8 from 68 to 79. So, 79 + 8 equals 87. Therefore, the sum of 19 and 68 is indeed 87, making the correct answer the option that states this sum. This method of breaking down the addition can help ensure accuracy and also allows for easier mental calculations.

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7. Find the sum of 63 and 27.

A. 70

B. 80

C. 90

D. 100

To find the sum of 63 and 27, you simply add the two numbers together. Starting with 63, you can break it down into parts for an easier addition. You can add 20 to 63 first, which gives you 83. Then, you just need to add the remaining 7 from 27. So, adding 7 to 83 results in 90. Therefore, the total sum of 63 and 27 is 90. This method highlights the process of breaking down the addition into smaller, manageable pieces, which can be helpful in mental math. This consistent and logical approach ensures that you arrive at the correct total efficiently. The number 90 is the accurate sum, confirming that adding these two values results in that total.

8. Add together 1.728, 0.9975, and 2.42. What is the sum?

A. 5.1455

B. 5.1235

C. 5.20

D. 5.00

To find the sum of 1.728, 0.9975, and 2.42, it's essential to align the numbers correctly by their decimal points. The proper addition process involves ensuring that all the numbers have the same number of decimal places. First, it's helpful to rewrite the numbers with sufficient decimal places: - 1.728 can be written as 1.7280 (adding an extra zero for alignment). - 0.9975 is already at four decimal places. - 2.42 can be written as 2.4200 (adding two zeros for alignment). Now, aligning them for addition gives: ``` 1.7280 0.9975 + 2.4200 --------- ``` Adding starting from the rightmost digit, we add column by column: - The rightmost column: 0 + 5 + 0 = 5 - The next column: 8 + 7 + 0 = 15 (write down 5 and carry over 1) - The next column: 2 + 9 + 2 + 1 (the carry) = 14 (write down 4 and carry over 1

9. 125 is what percent of 50?

A. 200%

B. 225%

C. 250%

D. 275%

To determine what percent 125 is of 50, you can use the formula for finding percentage, which is: $$ \text{Percentage} = \left(\frac{\text{Part}}{\text{Whole}} \right) \times 100 $$ In this case, the part is 125, and the whole is 50. Plugging in the values, the calculation would look like this: $$ \text{Percentage} = \left(\frac{125}{50} \right) \times 100 $$ First, calculate the fraction: $$ \frac{125}{50} = 2.5 $$ Next, multiply by 100 to convert the fraction to a percentage: $$ 2.5 \times 100 = 250 $$ This shows that 125 is 250% of 50. Thus, the reasoning aligns perfectly with the correct answer, which is 250%. By using the percentage formula effectively and performing the multiplication after simplifying the fraction, we arrive clearly at the correct conclusion.

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10. If a store sells 15 apples at $0.50 each, how much do they earn?

A. $5.00

B. $7.50

C. $10.00

D. $12.50

To find out how much the store earns from selling 15 apples at $0.50 each, you need to multiply the number of apples by the price per apple. Calculating this, you simply take 15 (the number of apples) and multiply it by $0.50 (the cost of each apple): 15 apples × $0.50/apple = $7.50. This calculation shows that the correct total earnings from selling the apples is indeed $7.50. Therefore, the correct answer reflects the overall earnings from the sale based on this straightforward multiplication approach.

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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://arithmeticaccuplacer.examzify.com

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

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