Workkeys 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. Don't worry about getting everything right, 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, and take breaks to retain information better.

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.

7. Use Other Tools

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. What is the total distance traveled if a driver goes 70 miles in the morning and 85 miles in the afternoon?

A. 140 miles

B. 155 miles

C. 165 miles

D. 175 miles

2. If a book costs $30 and you get a 10% discount, how much do you pay?

A. $25

B. $27

C. $29

D. $28

3. How much almond extract should you add if the recipe calls for 0.75 teaspoon?

A. 1/4 of a teaspoon

B. 1/2 of a teaspoon

C. 3/4 of a teaspoon

D. 1/3 of a teaspoon

4. Find the slope of the line that passes through the points (2, 3) and (4, 7).

A. 1

B. 2

C. 3

D. 4

5. If a recipe requires 2 cups of flour and you want to make half the recipe, how much flour do you need?

A. 1 cup

B. 2 cups

C. 3 cups

D. 0.5 cup

6. A part-time contractor makes $11.00 per hour. How much money did he earn if he worked a total of 20 hours in a week?

A. $210.00

B. $220.00

C. $230.00

D. $240.00

7. If you combine a 3/16 inch piece of wood and a 5/16 inch piece, what is the new measurement of the combined piece in its lowest form?

A. 5/16 inches

B. 1/4 inches

C. 1/2 inches

D. 3/8 inches

8. If there are 4 apples and you buy 8 more, how many apples do you have in total?

A. 10 apples

B. 12 apples

C. 14 apples

D. 16 apples

9. If a fence costs $15 per foot and you buy 10 feet, how much will it cost?

A. $100

B. $150

C. $200

D. $250

10. A salesman traveled 52 miles, 64 miles, and 49 miles over three hours. What is his average speed per hour?

A. 49 miles/hour

B. 52 miles/hour

C. 55 miles/hour

D. 64 miles/hour

Answers

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

Explanations

1. What is the total distance traveled if a driver goes 70 miles in the morning and 85 miles in the afternoon?

A. 140 miles

B. 155 miles

C. 165 miles

D. 175 miles

To find the total distance traveled by the driver, you need to add the distances traveled in the morning and the afternoon. The driver covers 70 miles in the morning and 85 miles in the afternoon. By performing the addition: 70 miles + 85 miles = 155 miles. This total distance correctly reflects the sum of the two separate parts of the journey, which is why the answer of 155 miles accurately represents the cumulative distance traveled throughout the day.

2. If a book costs $30 and you get a 10% discount, how much do you pay?

A. $25

B. $27

C. $29

D. $28

To determine how much you pay for the book after applying a 10% discount, you start by calculating the amount of the discount. The book costs $30, and a 10% discount means you multiply the cost by 0.10: \[30 \times 0.10 = 3 \] This means you receive a discount of $3. To find out the final price you pay, you subtract this discount from the original price of the book: \[30 - 3 = 27 \] Thus, after the discount, the amount you pay is $27. This calculation shows how to accurately apply a percentage discount to an original price, making it clear that the correct answer is indeed $27.

3. How much almond extract should you add if the recipe calls for 0.75 teaspoon?

A. 1/4 of a teaspoon

B. 1/2 of a teaspoon

C. 3/4 of a teaspoon

D. 1/3 of a teaspoon

The recipe specifies the addition of 0.75 teaspoon of almond extract, which is equivalent to 3/4 teaspoon. This measurement is exactly what the recipe calls for, meaning that if you add this amount, you will be following the instructions correctly. The other options do not represent the required measurement accurately. For instance, adding 1/4 teaspoon is significantly less than needed, and 1/2 teaspoon is still under the specified amount. Similarly, adding 1/3 of a teaspoon does not meet the requirement, as it is less than the needed 3/4 teaspoon. Therefore, adding 3/4 teaspoon ensures that the recipe is made as intended.

4. Find the slope of the line that passes through the points (2, 3) and (4, 7).

A. 1

B. 2

C. 3

D. 4

To find the slope of the line that passes through two points, you can use the formula for slope, which is given by the change in the y-coordinates divided by the change in the x-coordinates. For the points (2, 3) and (4, 7): - The change in the y-coordinates (rise) is calculated as the difference between the y-values: 7 - 3 = 4. - The change in the x-coordinates (run) is calculated as the difference between the x-values: 4 - 2 = 2. Now, applying the formula for slope: Slope $m = \frac{\text{rise}}{\text{run}} = \frac{4}{2} = 2$. This indicates that for every 2 units moved in the x-direction, the line rises by 4 units in the y-direction, thus representing a slope of 2. This aligns with the choice made. Understanding slope is crucial for interpreting graphs and equations in mathematics, as it indicates the steepness and direction of a line.

5. If a recipe requires 2 cups of flour and you want to make half the recipe, how much flour do you need?

A. 1 cup

B. 2 cups

C. 3 cups

D. 0.5 cup

To determine how much flour is needed when making half of a recipe that requires 2 cups of flour, you calculate half of the original amount. This is done by dividing the original quantity by 2, as the goal is to scale down the recipe proportionately. Starting with the full amount of flour, which is 2 cups, you perform the calculation: 2 cups ÷ 2 = 1 cup. This means that to make half of the recipe, you will need 1 cup of flour. Therefore, the answer is correct as it aligns perfectly with the mathematical operation of halving the amount required by the full recipe.

6. A part-time contractor makes $11.00 per hour. How much money did he earn if he worked a total of 20 hours in a week?

A. $210.00

B. $220.00

C. $230.00

D. $240.00

To find out how much the contractor earned for working 20 hours at a rate of $11.00 per hour, you multiply the hourly wage by the number of hours worked. This can be calculated as follows: Earnings = Hourly Rate × Hours Worked Earnings = $11.00 × 20 Performing this multiplication gives us: Earnings = $220.00 This means that the contractor earned a total of $220.00 for the week. This method of calculating earnings is straightforward, utilizing basic multiplication to determine total compensation based on hourly work. The other options do not accurately reflect the earnings based on the given hourly rate and hours worked.

7. If you combine a 3/16 inch piece of wood and a 5/16 inch piece, what is the new measurement of the combined piece in its lowest form?

A. 5/16 inches

B. 1/4 inches

C. 1/2 inches

D. 3/8 inches

To find the combined measurement of the two pieces of wood, you need to add the two fractions together. You have 3/16 inch and 5/16 inch. When adding fractions with the same denominator, you keep the denominator the same and simply add the numerators: 3/16 + 5/16 = (3 + 5)/16 = 8/16. The next step is to simplify the fraction. The fraction 8/16 can be simplified by dividing both the numerator and the denominator by the greatest common divisor, which is 8 in this case. So, 8 ÷ 8 / 16 ÷ 8 = 1/2. This means that the combined measurement of the two pieces of wood is 1/2 inch. In this context, the other options do not represent the sum correctly. 5/16 inches is one of the original measurements and cannot be the combined total. 1/4 inches is smaller than both pieces and thus also cannot be correct. 3/8 inches is less than the combined total of 1/2 inch and is therefore not accurate either. Thus, the measurement in its lowest form is 1/2 inches.

8. If there are 4 apples and you buy 8 more, how many apples do you have in total?

A. 10 apples

B. 12 apples

C. 14 apples

D. 16 apples

To determine the total number of apples, you start with the initial quantity and add the amount purchased. In this case, you have 4 apples and then you buy 8 more. Adding these quantities together: 4 apples (initial) + 8 apples (purchased) = 12 apples (total) This shows that the total count of apples is accurately calculated by simple addition, leading to the conclusion that you have 12 apples in total. This method of combining quantities is fundamental in mathematics, especially in word problems involving purchases or accumulations.

9. If a fence costs $15 per foot and you buy 10 feet, how much will it cost?

A. $100

B. $150

C. $200

D. $250

To determine the total cost of the fence, you need to multiply the cost per foot by the number of feet being purchased. In this case, the cost per foot is $15, and you are buying 10 feet of fencing. The calculation can be set up as follows: Total Cost = Cost per Foot × Number of Feet Total Cost = $15 × 10 When you perform the multiplication: Total Cost = $150 This means that the cost of purchasing 10 feet of fence at $15 per foot is indeed $150. Thus, this answer accurately reflects the correct total cost calculation based on the given price and measurement.

10. A salesman traveled 52 miles, 64 miles, and 49 miles over three hours. What is his average speed per hour?

A. 49 miles/hour

B. 52 miles/hour

C. 55 miles/hour

D. 64 miles/hour

To find the average speed of the salesman, we first need to calculate the total distance traveled and the total time spent traveling. The salesman traveled distances of 52 miles, 64 miles, and 49 miles. Adding these distances together gives us: 52 miles + 64 miles + 49 miles = 165 miles. Next, we note that the total time spent traveling is 3 hours. The average speed is calculated using the formula: Average speed = Total distance ÷ Total time. Substituting the values we have: Average speed = 165 miles ÷ 3 hours = 55 miles/hour. This average speed represents the overall speed at which the salesman was traveling over the total distance covered in the total time. Thus, the correct answer, which indicates the average speed per hour, is indeed 55 miles/hour.

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://workkeysmath.examzify.com

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