Workkeys Math Practice Test (Sample)

Study Guide

BY EXAMZIFY

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. **How many sides does a hexagon have?**

   A. 5

   B. 6

   C. 7

   D. 8

2. **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

3. **What is the average pay for an entry-level technician position if similar positions pay \$15.50, \$16.85, \$14.25, and \$15.95 per hour?**

   A. \$14.75

   B. \$15.50

   C. \$15.64

   D. \$16.00

4. **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

5. **What is the area of a triangle with a base of 10 cm and a height of 5 cm?**

   A. 30 cm²

   B. 25 cm²

   C. 15 cm²

   D. 50 cm²

6. **If you have a dozen cookies and eat 4, how many cookies are left?**

    A. 6

    B. 8

    C. 10

    D. 12

7. **What is the area of a circle with a diameter of 10 cm?**

    A. 31.4 cm²

    B. 78.5 cm²

    C. 50 cm²

    D. 100 cm²

8. **How much would you spend if you buy 6 items priced at $15.99 each?**

    A. $79.99

    B. $89.94

    C. $99.99

    D. $95.94

9. **What is 1/2 of an hour in minutes?**

    A. 15 minutes

    B. 30 minutes

    C. 45 minutes

    D. 60 minutes

10. **If 3/5 of a pizza is left and you eat 1/5, how much is left?**

    A. 1/5

    B. 2/5

    C. 3/5

    D. 4/5

Answers

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

Explanations

1. How many sides does a hexagon have?

A. 5

B. 6

C. 7

D. 8

A hexagon is defined as a polygon with six sides and six angles. The term "hexagon" comes from the Greek word "hex," meaning six. This shape can be regular, with all sides and angles equal, or irregular, with varying side lengths and angles, but in either case, the total number of sides remains constant at six. Understanding the fundamental properties of polygons is crucial in geometry, as it helps in determining the characteristics of various shapes. In this context, the correct identification of a hexagon as having six sides is essential knowledge in basic geometric concepts.

2. 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.

3. What is the average pay for an entry-level technician position if similar positions pay $15.50, $16.85, $14.25, and $15.95 per hour?

A. $14.75

B. $15.50

C. $15.64

D. $16.00

To find the average pay for the entry-level technician position, you need to sum the hourly wages of similar positions and then divide by the total number of positions considered. In this case, the hourly wages are $15.50, $16.85, $14.25, and $15.95. First, add these values together: $15.50 + $16.85 + $14.25 + $15.95 = $62.55 Next, since there are four positions, divide the total sum by 4 to find the average: $62.55 ÷ 4 = $15.6375 Rounding this to two decimal places results in an average pay of approximately $15.64.   This calculation shows how to derive the average from a set of numbers, making option C the most accurate choice for the average pay for the entry-level technician position.

4. 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.

5. What is the area of a triangle with a base of 10 cm and a height of 5 cm?

    A. 30 cm²

    B. 25 cm²

    C. 15 cm²

    D. 50 cm²

To find the area of a triangle, you can use the formula: Area = (base × height) / 2 In this case, the base of the triangle is 10 cm and the height is 5 cm. Plugging these values into the formula gives: Area = (10 cm × 5 cm) / 2   Area = 50 cm² / 2   Area = 25 cm² This calculation shows that the area of the triangle is 25 cm², which aligns perfectly with the chosen answer. Recognizing and applying the formula correctly is crucial in solving geometry problems involving triangles, and in this situation, the height plays a vital role in determining the area along with the base.

6. If you have a dozen cookies and eat 4, how many cookies are left?

    A. 6

    B. 8

    C. 10

    D. 12

To determine how many cookies are left after eating some of them, start with the total number of cookies, which is a dozen. A dozen equals 12 cookies. When you eat 4 cookies, you subtract that number from the original total.   So, the calculation is: 12 cookies - 4 cookies = 8 cookies. This shows that after eating 4 cookies, there are 8 cookies remaining. This reasoning clarifies that the correct answer is indeed the option that states there are 8 cookies left.

7. What is the area of a circle with a diameter of 10 cm?

A. 31.4 cm²

B. 78.5 cm²

C. 50 cm²

D. 100 cm²

To find the area of a circle, you use the formula $A = \pi r^2$, where r is the radius of the circle. The radius is half the diameter, so if the diameter is 10 cm, the radius would be 10 cm ÷ 2 = 5 cm. Now, substituting the radius into the area formula: $$A = \pi (5 \text{ cm})^2$$ $$A = \pi (25 \text{ cm}^2) = 25\pi \text{ cm}^2$$ Using an approximate value for π (about 3.14), you can calculate: $$A \approx 25 \times 3.14 \text{ cm}^2 = 78.5 \text{ cm}^2$$ Therefore, the area of the circle is approximately 78.5 cm², making this the correct answer. This choice accurately reflects the mathematical principles required to determine the area of a circle based on its diameter.

8. How much would you spend if you buy 6 items priced at $15.99 each?

A. $79.99

B. $89.94

C. $99.99

D. $95.94

To find out how much would be spent on 6 items priced at $15.99 each, you simply multiply the price of one item by the number of items. The calculation involves: 1. **Multiplication**: Multiply the unit price ($15.99) by the quantity (6). So, the operation is: $$15.99 \times 6$$ 2. **Perform the calculation**: This gives: $$15.99 \times 6 = 95.94$$ This result indicates that if you are purchasing 6 items at $15.99 each, your total expenditure would be $95.94. Overall, this calculation illustrates the basic principle of finding a total cost by multiplying the per-item price by the number of items purchased, leading to the conclusion that $95.94 is the correct total amount spent for the given scenario.

9. What is 1/2 of an hour in minutes?

A. 15 minutes

B. 30 minutes

C. 45 minutes

D. 60 minutes

To determine what half of an hour is in minutes, it's helpful to understand the relationship between hours and minutes. One hour is equivalent to 60 minutes. Therefore, when calculating half of one hour, you would divide the total minutes in an hour by 2: 60 minutes ÷ 2 = 30 minutes. This calculation indicates that half of an hour is indeed 30 minutes. Understanding this concept is critical for working with time measurements, especially in situations that require conversions between different units of time.

10. If 3/5 of a pizza is left and you eat 1/5, how much is left?

    A. 1/5

    B. 2/5

    C. 3/5

    D. 4/5

To determine how much pizza is left after consuming 1/5 of what was initially available, start with the amount that is left: 3/5 of the pizza. When you eat 1/5 of the pizza, you need to subtract this amount from the 3/5 that remains. The subtraction of fractions can be performed as follows: 1. **Set up the calculation**: 3/5 - 1/5. 2. **Subtract the numerators**: Here, you subtract 1 from 3, which gives you 2. The denominator remains the same, which is 5. 3. **Result**: This calculation results in 2/5 left of the pizza. Therefore, the amount of pizza left after eating 1/5 of it is indeed 2/5. This answer correctly reflects the subtraction of the portions of the pizza, showing the correct understanding of working with fractions.

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!