GED MATH 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. **Which part of a fraction is found above the line and tells how many parts are being counted?**

   A. Area

   B. Denominator

   C. Numerator

   D. Volume

2. **How many grams are in one kilogram?**

   A. 100 grams

   B. 500 grams

   C. 750 grams

   D. 1000 grams

3. **What does the "d" represent in the circumference formula c = πd?**

   A. Area

   B. Height

   C. Diameter

   D. Radius

4. **What term is used to describe the answer to a division problem?**

   A. Difference

   B. Product

   C. Quotient

   D. Sum

5. **The distance around a circle is known as its what?**

   A. Center

   B. Diameter

   C. Radius

   D. Circumference

6. **For the problem -5 + (-3), what is the correct result?**

   A. 2

   B. -2

   C. -8

   D. 8

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7. What is the value of the expression 9 - 3 + 6?

A. 8

B. 9

C. 10

D. 12

8. If triangle ABC is similar to triangle DEF, what can be said about the relationship between angle A and angle D?

A. Angle A equals angle D

B. Angle A is greater than angle D

C. Angle A is less than angle D

D. Angle A is not related to angle D

9. How many days are in one year?

A. 360 days

B. 362 days

C. 364 days

D. 365 days

10. What is the perimeter of a square with sides of length 5 cm?

A. 10 cm

B. 15 cm

C. 20 cm

D. 25 cm

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Answers

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

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Explanations

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1. Which part of a fraction is found above the line and tells how many parts are being counted?

A. Area

B. Denominator

C. Numerator

D. Volume

The part of a fraction that is found above the line is called the numerator. The numerator represents how many parts of a whole are being counted or considered. For instance, in the fraction 3/4, the number 3 indicates that three parts are being counted out of a total of four equal parts. Understanding this concept is essential when working with fractions, as it helps in performing operations like addition, subtraction, multiplication, and division involving fractions. Recognizing the role of the numerator helps in visualizing how a fraction represents a portion of a whole, which is foundational in mathematics. In contrast, the denominator, found below the line, indicates how many total equal parts make up the whole, while terms like area and volume do not pertain directly to fractions.

2. How many grams are in one kilogram?

A. 100 grams

B. 500 grams

C. 750 grams

D. 1000 grams

The correct answer, which states that there are 1000 grams in one kilogram, is based on the metric system's base unit of mass. In the metric system, the prefix "kilo-" means one thousand. Therefore, one kilogram is defined as exactly 1000 grams. This measurement is fundamental in science and everyday use to ensure consistency and ease of conversion between units of mass. Knowing the metric system's structure is essential for solving problems involving measurements, especially in settings where precision is crucial, such as cooking, laboratory work, or any scientific endeavor. The conversion helps provide clarity and uniformity in communication regarding mass across various disciplines.

3. What does the "d" represent in the circumference formula c = πd?

A. Area

B. Height

C. Diameter

D. Radius

In the formula for the circumference of a circle, c = πd, the "d" represents the diameter of the circle. The diameter is the distance across the circle, passing through the center, and is double the length of the radius, which is the distance from the center to any point on the edge of the circle. Understanding this relationship is important because the circumference itself is the distance around the circle, and knowing the diameter allows you to calculate it by multiplying by π (pi), which is a constant approximately equal to 3.14. Therefore, recognizing that "d" in the equation denotes diameter highlights its critical role in determining the size of the circle's circumference.

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4. What term is used to describe the answer to a division problem?

A. Difference

B. Product

C. Quotient

D. Sum

The correct term used to describe the answer to a division problem is "quotient." When you divide one number by another, the result you obtain is called the quotient. This is a fundamental concept in arithmetic, where you are essentially determining how many times the divisor fits into the dividend. In contrast, "difference" refers to the result of a subtraction problem, "product" pertains to the result of a multiplication problem, and "sum" is the term used for the result of an addition problem. Each of these terms defines a specific operation in mathematics, making it essential to use the correct terminology when discussing operations and their results.

5. The distance around a circle is known as its what?

A. Center

B. Diameter

C. Radius

D. Circumference

The distance around a circle is known as its circumference. This term specifically refers to the total length of the boundary of the circle. It can be calculated using the formula $C = 2\pi r$ or $C = \pi d$, where r is the radius and d is the diameter of the circle. The other terms refer to different aspects of a circle: the center is the point that is equidistant from all points on the circle, the diameter is a line segment that passes through the center and connects two points on the circumference, and the radius is the distance from the center to any point on the circle. Understanding these definitions helps clarify why circumference is the correct choice for this question.

6. For the problem -5 + (-3), what is the correct result?

A. 2

B. -2

C. -8

D. 8

The correct result for the problem -5 + (-3) is -8. This is because when adding two negative numbers, the result is always negative. Option A (2) and Option D (8) are incorrect because they both result in positive numbers. Option B (-2) may seem like a possibility, but it is important to remember that the operation is addition, not subtraction, and two negatives do not cancel each other out in this case. Therefore, the correct answer is -8.

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7. What is the value of the expression 9 - 3 + 6?

A. 8

B. 9

C. 10

D. 12

To find the value of the expression 9 - 3 + 6, it is essential to follow the correct order of operations, which in this case is straightforward since there are only addition and subtraction to perform from left to right. Starting with the expression, you first calculate 9 - 3, which equals 6. This step is performed by subtracting 3 from 9. Once you have this result, you then proceed to add 6 to that result. Thus, 6 + 6 equals 12. Therefore, the value of the expression 9 - 3 + 6 is indeed 12, confirming that this is the correct answer.

8. If triangle ABC is similar to triangle DEF, what can be said about the relationship between angle A and angle D?

A. Angle A equals angle D

B. Angle A is greater than angle D

C. Angle A is less than angle D

D. Angle A is not related to angle D

When two triangles, such as triangle ABC and triangle DEF, are similar, they share proportional relationships in their corresponding angles and side lengths. This means that all corresponding angles in similar triangles are equal in measure. Therefore, angle A in triangle ABC is equal to angle D in triangle DEF. The property of similarity indicates that if two triangles are similar, not only are their angles equal, but the ratios of the lengths of the corresponding sides are also constant. This fundamental concept is key in various geometric applications, making it essential for understanding the broader implications of triangle similarity in mathematics. Given that angle A is equivalent to angle D, this reinforces the relationship intrinsic to similar triangles, underlining the significance of this relationship in geometric proofs and problems. Other choices do not accurately express this specific relationship, as they suggest inequalities or a lack of correspondence, which is not applicable in the context of similar triangles.

9. How many days are in one year?

A. 360 days

B. 362 days

C. 364 days

D. 365 days

The correct answer is 365 days, which is the standard number of days in a year. A common year has 365 days because it takes the Earth about that long to complete one full orbit around the Sun. This accounts for the division of the year into 12 months, each with varying lengths that total 365 days. While a leap year, which occurs every four years, adds an extra day, bringing the total to 366 days, this is not the case for a typical year. The other options of 360, 362, and 364 days do not accurately reflect the actual length of a year and are not standard measurements for the calendar year used in most countries. Therefore, 365 days is the correct and universally recognized duration for one year.

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10. What is the perimeter of a square with sides of length 5 cm?

A. 10 cm

B. 15 cm

C. 20 cm

D. 25 cm

To find the perimeter of a square, you can use the formula for perimeter, which is the sum of the lengths of all four sides. Since all sides of a square are equal, the formula simplifies to multiplying the length of one side by 4. In this case, the side length is given as 5 cm. Therefore, the perimeter can be calculated as follows: Perimeter = 4 × side length = 4 × 5 cm = 20 cm. This calculation shows why the correct answer is indeed 20 cm, as it correctly reflects the total distance around the square using the given side length. Understanding this formula is essential because it applies universally to all squares regardless of their size, reinforcing the concept that the perimeter is simply a function of the side length multiplied by four.

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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://gedmath.examzify.com

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

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