

# GED 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. 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. Solve for  $m$  in the equation  $2m + 6 = 18$ .
  - A. 4
  - B. 5
  - C. 6
  - D. 7
2. What is the mean of the following numbers: 2, 4, 6, 8?
  - A. 4
  - B. 5
  - C. 6
  - D. 7
3. What is a variable in mathematical expressions?
  - A. A comparison of two numbers
  - B. A number being multiplied to a variable
  - C. A symbol used to represent a variable quantity
  - D. The initial point of an angle
4. How many degrees are in the angles of a triangle?
  - A. 90 degrees
  - B. 180 degrees
  - C. 270 degrees
  - D. 360 degrees
5. How many ounces are in one gallon?
  - A. 128 ounces
  - B. 16 ounces
  - C. 32 ounces
  - D. 64 ounces
6. The distance around a circle is known as its what?
  - A. Center
  - B. Diameter
  - C. Radius
  - D. Circumference

**7. What is the radius of a circle?**

- A. The distance around the circle
- B. The line segment connecting the center of the circle to any point on the circle
- C. The area of the circle
- D. The length of a chord in the circle

**8. In which units is volume generally measured?**

- A. Cubic units
- B. Square units
- C. Linear units
- D. Radians

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

- A. 8
- B. 9
- C. 10
- D. 12

**10. What is the solution for  $z$  in the equation  $5z - 15 = 10$ ?**

- A. 3
- B. 4
- C. 5
- D. 6

## **Answers**

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

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## **Explanations**

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1. Solve for  $m$  in the equation  $2m + 6 = 18$ .

- A. 4
- B. 5
- C. 6
- D. 7

To solve the equation  $(2m + 6 = 18)$ , the first step is to isolate the term containing  $(m)$ . This can be done by subtracting 6 from both sides of the equation. Here's how that looks:  $[ 2m + 6 - 6 = 18 - 6 ]$  This simplifies to:  $[ 2m = 12 ]$  Next, to solve for  $(m)$ , you divide both sides of the equation by 2:  $[ \frac{2m}{2} = \frac{12}{2} ]$  This gives:  $[ m = 6 ]$  Thus, the correct answer is 6. This value for  $(m)$  satisfies the original equation when you substitute it back in, demonstrating that the solution is valid. If you were to check the value of  $(m)$  in the context of the equation:  $[ 2(6) + 6 = 18 ]$  This simplifies to:  $[ 12 + 6 = 18 ]$  Confirming that the equation holds true. Therefore, 6 is indeed the correct solution to the equation  $(2m + 6 = 18)$

2. What is the mean of the following numbers: 2, 4, 6, 8?

- A. 4
- B. 5
- C. 6
- D. 7

To find the mean of a set of numbers, you add all the numbers together and then divide by the total count of the numbers. In this case, the numbers are 2, 4, 6, and 8. First, let's add them together:  $2 + 4 + 6 + 8 = 20$  Next, we count the total numbers, which is 4. Now, we divide the total sum by the number of values:  $20 \div 4 = 5$  This means the mean of the numbers 2, 4, 6, and 8 is 5. Therefore, the correct answer is the one that represents this value. Understanding the procedure for calculating the mean is crucial, as it helps in situations where you may need to analyze data sets and find average values.

3. What is a variable in mathematical expressions?

- A. A comparison of two numbers
- B. A number being multiplied to a variable
- C. A symbol used to represent a variable quantity
- D. The initial point of an angle

A variable in mathematical expressions is a symbol that is used to represent a quantity that can change or vary. It is not a comparison of two numbers, a number being multiplied to a variable, or the initial point of an angle. Variables are placeholders for unknown or changing values in equations and expressions. Therefore, the correct answer is C: A symbol used to represent a variable quantity.

#### 4. How many degrees are in the angles of a triangle?

- A. 90 degrees
- B. 180 degrees**
- C. 270 degrees
- D. 360 degrees

A triangle is defined as a geometric figure with three sides and three angles. One of the foundational properties of triangles in Euclidean geometry is that the sum of the interior angles always equals 180 degrees. This means that irrespective of the type of triangle—whether it is scalene, isosceles, or equilateral—the total measure of its internal angles will always add up to 180 degrees. This property is significant because it provides a basis for various geometric calculations and theorems. For example, if one angle measures 60 degrees and another measures 70 degrees in a triangle, the third angle can be determined by subtracting the sum of the known angles from 180 degrees, thus confirming this fundamental rule. Other options do not apply to the angles of a triangle. For instance, 90 degrees corresponds to the measure of a right angle but does not represent the total angle sum. Likewise, 270 degrees and 360 degrees are measures related to circles, where 360 degrees represents a full rotation, and 270 degrees indicates three-quarters of a rotation, neither of which pertain to the angle sum of a triangle.

#### 5. How many ounces are in one gallon?

- A. 128 ounces**
- B. 16 ounces
- C. 32 ounces
- D. 64 ounces

The correct answer is that there are 128 ounces in one gallon. This is based on the standard conversion where one gallon is defined as being equivalent to 128 fluid ounces. In understanding this relationship, it helps to remember that there are 4 quarts in a gallon and each quart contains 32 ounces. Thus, if you multiply the number of quarts (4) by the number of ounces in each quart (32), you arrive at the total of 128 ounces in a gallon. Understanding these fluid measurements is crucial, especially in contexts like cooking, where accurate measurements can significantly affect recipe outcomes.

#### 6. 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.

## 7. What is the radius of a circle?

- A. The distance around the circle
- B. The line segment connecting the center of the circle to any point on the circle**
- C. The area of the circle
- D. The length of a chord in the circle

The radius of a circle is indeed defined as the line segment that connects the center of the circle to any point on its circumference. This distance is crucial in many geometrical calculations and determines the size of the circle. In this context, the radius is a fundamental element of circle geometry, as it helps define other important properties such as the diameter (which is twice the radius) and the area of the circle. Understanding this definition is essential for solving various circle-related problems in mathematics. The other options describe different characteristics related to circles. The distance around a circle refers to the circumference, which is a different concept. The area of a circle involves the square of the radius multiplied by  $\pi$ , and the length of a chord is a line segment whose endpoints both lie on the circle but does not define the circle's radius.

## 8. In which units is volume generally measured?

- A. Cubic units**
- B. Square units
- C. Linear units
- D. Radians

Volume is generally measured in cubic units because volume represents the three-dimensional space an object occupies. When calculating volume, measurements are taken in three dimensions (length, width, height), and the product of these three linear measurements results in a cubed measurement, which is denoted as cubic units (e.g., cubic centimeters, cubic meters). For instance, if you have a box that is 2 meters long, 3 meters wide, and 4 meters high, you would calculate the volume by multiplying these dimensions together:  $(2 \times 3 \times 4 = 24)$  cubic meters. This clearly demonstrates how volume incorporates three dimensions, hence requiring cubic units for proper measurement. In contrast, square units measure area, which is a two-dimensional attribute, and linear units measure length, which is one-dimensional. Radians, on the other hand, are a unit of angular measurement rather than volume. Thus, the use of cubic units is essential for accurately conveying the concept of volume in mathematical and everyday scenarios.

## 9. 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.

10. What is the solution for  $z$  in the equation  $5z - 15 = 10$ ?

- A. 3
- B. 4
- C. 5
- D. 6

To find the solution for  $z$  in the equation  $5z - 15 = 10$ , start by isolating  $z$ . First, add 15 to both sides of the equation to eliminate the constant term on the left side:  $5z - 15 + 15 = 10 + 15$  This simplifies to:  $5z = 25$  Next, to solve for  $z$ , divide both sides of the equation by 5:  $z = \frac{25}{5}$  This simplifies to:  $z = 5$  Therefore, the solution for  $z$  is 5. This process involves standard algebraic steps for solving linear equations and demonstrates the importance of maintaining equality while manipulating both sides of the equation to find the variable's value.

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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](mailto: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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