

# Ged Math Formula Sheet

2014 GED® Test Resources



## Mathematics Formula Sheet & Explanation

The 2014 GED® Mathematical Reasoning test contains a formula sheet, which displays formulas relating to geometric measurement and certain algebra concepts. Formulas are provided to test-takers so that they may focus on *application*, rather than the *memorization*, of formulas.

### Area of a:

square	$A = s^2$
rectangle	$A = lw$
parallelogram	$A = bh$
triangle	$A = \frac{1}{2}bh$
trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
circle	$A = \pi r^2$

### Perimeter of a:

square	$P = 4s$
rectangle	$P = 2l + 2w$
triangle	$P = s_1 + s_2 + s_3$
Circumference of a circle	$C = 2\pi r$ OR $C = \pi d$ ; $\pi \approx 3.14$

### Surface area and volume of a:

rectangular prism	$SA = 2lw + 2lh + 2wh$	$V = lwh$
right prism	$SA = ph + 2B$	$V = Bh$
cylinder	$SA = 2\pi rh + 2\pi r^2$	$V = \pi r^2 h$
pyramid	$SA = \frac{1}{2}ps + B$	$V = \frac{1}{3}Bh$
cone	$SA = \pi rs + \pi r^2$	$V = \frac{1}{3}\pi r^2 h$
sphere	$SA = 4\pi r^2$	$V = \frac{4}{3}\pi r^3$

( $p$  = perimeter of base with area  $B$ ;  $\pi \approx 3.14$ )

### Data

mean	mean is equal to the total of the values of a data set, divided by the number of elements in the data set
median	median is the middle value in an odd number of ordered values of a data set, or the mean of the two middle values in an even number of ordered values in a data set

### Algebra

slope of a line	$m = \frac{y_2 - y_1}{x_2 - x_1}$
slope-intercept form of the equation of a line	$y = mx + b$
point-slope form of the equation of a line	$y - y_1 = m(x - x_1)$
standard form of a quadratic equation	$y = ax^2 + bx + c$
quadratic formula	$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Pythagorean theorem	$a^2 + b^2 = c^2$
simple interest	$i = prt$ ( $i$ = interest, $P$ = principal, $r$ = rate, $t$ = time)
distance formula	$d = rt$
total cost	total cost = (number of units) $\times$ (price per unit)

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## GED Math Formula Sheet: A Comprehensive Guide to Mastering the Math Section of the GED

The General Educational Development (GED) test is an essential pathway for many individuals seeking to earn a high school equivalency diploma. Among its four sections—Reasoning Through Language Arts, Social Studies, Science, and Mathematical Reasoning—the Math section can often be a source of anxiety for test-takers. To alleviate some of this stress, having a GED math formula sheet is an invaluable resource. This article will delve into the essential formulas and concepts that every GED candidate should know, offering a structured approach to mastering the mathematical reasoning required for the test.

# Understanding the GED Math Test Structure

Before diving into the formulas, it's crucial to understand the structure of the GED Math test. The Math section is divided into two parts:

1. Part 1: This section allows the use of a calculator. It includes various question types, such as multiple-choice, fill-in-the-blank, and drag-and-drop.
2. Part 2: This section is non-calculator and typically focuses on simpler calculations and concepts.

The test includes a range of topics, including:

- Basic Math
- Algebra
- Geometry
- Data Analysis

## Essential Math Concepts and Formulas

To effectively prepare for the GED Math test, familiarity with key formulas is essential. Below is a categorized list of important formulas and concepts that should be included in your GED math formula sheet.

### Basic Arithmetic

1. Addition and Subtraction:
  - $a + b = c$
  - $a - b = c$
2. Multiplication and Division:
  - $a \times b = c$
  - $a \div b = c$
3. Order of Operations (PEMDAS/BODMAS):
  - Parentheses/Brackets
  - Exponents/Orders
  - Multiplication and Division (from left to right)
  - Addition and Subtraction (from left to right)

### Algebra

1. Linear Equations:
  - Standard form:  $Ax + By = C$

- Slope-intercept form:  $y = mx + b$
- $m$  = slope
- $b$  = y-intercept

## 2. Factoring:

- $a^2 - b^2 = (a + b)(a - b)$

## 3. Quadratic Formula:

- $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

## 4. Exponents:

- $a^m \times a^n = a^{(m+n)}$
- $(a^m)^n = a^{(mn)}$

# Geometry

## 1. Area and Perimeter:

- Rectangle:
  - Area = length  $\times$  width
  - Perimeter =  $2(\text{length} + \text{width})$
- Triangle:
  - Area =  $\frac{1}{2} \times \text{base} \times \text{height}$
  - Perimeter = side1 + side2 + side3
- Circle:
  - Area =  $\pi r^2$
  - Circumference =  $2\pi r$

## 2. Volume:

- Cube:  $V = s^3$  (where  $s$  is the side length)
- Rectangular Prism:  $V = l \times w \times h$

## 3. Pythagorean Theorem:

- $a^2 + b^2 = c^2$  (for right triangles)

# Data Analysis

## 1. Mean, Median, and Mode:

- Mean (average): (sum of values) / (number of values)
- Median: Middle value when data is ordered
- Mode: Most frequently occurring value

## 2. Probability:

- $P(E) = \frac{\text{number of favorable outcomes}}{\text{total number of outcomes}}$

## 3. Interpreting Graphs and Tables:

- Understanding bar graphs, line graphs, and pie charts to extract relevant information.

# Practical Tips for Using Your GED Math Formula Sheet

Having a GED math formula sheet is only useful if you know how to utilize it effectively. Here are some practical tips:

1. Familiarize Yourself with the Formulas:

- Spend time memorizing key formulas. Understanding when and how to use them can save time during the test.

2. Practice Problems:

- Solve practice problems using your formula sheet. This will help reinforce your understanding and ensure you can apply the formulas under exam conditions.

3. Create Your Own Sheet:

- Customize your formula sheet to include formulas that you find particularly challenging. This personalized approach can enhance your study sessions.

4. Time Management:

- During practice tests, simulate exam conditions. Use your formula sheet, but also practice solving problems without it to build confidence.

5. Review Regularly:

- Regularly revisit your formula sheet to keep the information fresh in your mind.

## Resources for GED Math Preparation

In addition to a GED math formula sheet, various resources can aid your preparation:

1. Official GED Study Guide:

- The official study guide includes practice questions and explanations of the mathematical concepts covered in the test.

2. Online Courses:

- Websites like Khan Academy and GED.com offer free resources and practice problems tailored for GED preparation.

3. GED Prep Books:

- There are several prep books available that focus on the math section, providing practice tests along with explanations of key concepts and formulas.

4. Tutoring:

- Consider hiring a tutor if you struggle with specific concepts. One-on-one

assistance can provide personalized support.

#### 5. Study Groups:

- Join a study group with fellow GED candidates. Sharing knowledge and strategies can enhance understanding and retention of material.

## Conclusion

A well-structured GED math formula sheet is an indispensable tool in preparing for the Mathematical Reasoning section of the GED test. By focusing on key formulas, familiarizing yourself with test structures, and utilizing effective study techniques, you can approach the exam with confidence. Remember, preparation is key. Regular practice, combined with strategic use of your formula sheet, will pave the way to success. With determination and the right resources, you can conquer the math section and take a significant step towards earning your GED diploma.

## Frequently Asked Questions

### What is a GED Math formula sheet?

A GED Math formula sheet is a resource that contains essential mathematical formulas and concepts that are commonly tested on the GED (General Educational Development) exam.

### Where can I find a GED Math formula sheet?

You can find a GED Math formula sheet on the official GED Testing Service website, educational resource websites, and study guides specifically designed for GED preparation.

### What types of formulas are included in a GED Math formula sheet?

The GED Math formula sheet typically includes formulas for arithmetic, geometry, algebra, and basic statistics, such as area, volume, and the Pythagorean theorem.

### Do I need to memorize the formulas from the GED Math formula sheet?

While it is helpful to be familiar with the formulas, the GED Math test provides a formula sheet, so memorization is not strictly necessary.

## **How can I effectively use the GED Math formula sheet during the test?**

You can effectively use the GED Math formula sheet by quickly referencing it for formulas you forget, ensuring you understand how to apply the formulas to solve problems.

## **Is there a specific format for the GED Math formula sheet?**

Yes, the GED Math formula sheet is usually formatted for clarity, with sections dedicated to different areas of math, making it easy to locate specific formulas.

## **Can I bring my own formula sheet to the GED Math test?**

No, you cannot bring your own formula sheet to the GED Math test; however, an official formula sheet will be provided to you during the exam.

## **How important is the GED Math formula sheet for passing the math section?**

The GED Math formula sheet is important as it can help you save time and ensure accuracy, but passing the math section also relies on your understanding of how to apply those formulas.

## **Are there practice tests that include the GED Math formula sheet?**

Yes, many GED preparation books and online resources offer practice tests that include the GED Math formula sheet to help you familiarize yourself with its use.

## **What should I do if I don't understand a formula on the GED Math formula sheet?**

If you don't understand a formula, consider reviewing the related math concepts, seeking help from a tutor, or using online resources to clarify the formula's application.

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