



# Mastering GED/HiSET Math



## A Step-by-Step Foundational Workbook For Adult Learners

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## Beginner Level

### 1. Understanding Numbers

- Whole numbers and integers
- Number operations (addition, subtraction, multiplication, division)
- Place value and rounding

### 2. Fractions and Decimals

- Converting between fractions and decimals
- Simplifying fractions
- Applying fractions and decimals in real-world scenarios

### 3. Basic Algebra

- Solving for  $x$
- Combining like terms
- Applying the distributive property

### 4. Word Problems and Applications

- Identifying key information in problems
- Setting up and solving equations
- Real-world applications

## Intermediate Level

### 5. Geometry Essentials

- Lines, angles, and shapes
- Area, perimeter, and volume
- Basic coordinate plane concepts

### 6. Linear Equations and Inequalities

- Writing and solving linear equations
- Graphing solutions
- Real-life applications

### 7. Data Interpretation

- Reading and analyzing tables, graphs, and charts
- Mean, median, and mode calculations

- Probability basics

## **8. Applied Math Problems**

- Practical scenarios in finance, business, and daily life
- Understanding ratios and proportions
- Using formulas effectively

## **Advanced Level**

### **9. Quadratics and Exponents**

- Understanding and solving quadratic equations
- Applying exponent rules
- Scientific notation and growth patterns

### **10. Probability and Statistics**

- Probability rules and calculations
- Analyzing statistical data
- Making predictions based on data

### **11. Multi-Step Problem Solving**

- Tackling complex multi-step equations
- Applying critical thinking to word problems
- Using mathematical reasoning in exams

### **12. GED/HiSET Test Strategies**

- Understanding test question formats
- Time management techniques
- Common mistakes to avoid

### **13. Full Practice Exams**

- GED-style practice tests
- HiSET-style practice tests
- Answer keys and explanations