CLIFFS GED

# 7117

## PREPARATION GUIDE

The New High School Equivalency Examination

By Deborah Work Moran, M.A. Peter Z Orton, M.Ed. Wendy R. Taub, M.A. Series Editor: Jerry Bobrow, Ph.D.

Written by testing experts New GED question types Intensive math reviews Two full-length practice tests Complete answers and explanations Proven strategies

# GED Mathematics Test

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by

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#### **PREFACE**

We know that passing the GED Test Battery is important to you! And thorough preparation is the key to doing your best. Because of this, your study time must be used most effectively. With this purpose in mind, the Cliffs GED Test Preparation Series was developed by leading experts in the field of test preparation. These guides are the most comprehensive test preparation materials that you can realistically complete in a reasonable time. Each of the GED Guides is easy to use, direct, precise, and thorough, giving you the important information, tips, and strategies that you need to pass the GED. These strategies and techniques have been carefully tested and are presently used in test preparation programs at many leading universities and colleges.

This GED Guide is divided into five parts:

- PART I: Introduction—a general description of the exam, recent format, questions commonly asked, and basic overall strategy.
- PART II: Analysis of Exam Areas—focuses on ability tested, basic skills necessary, directions, analysis of directions, suggested approaches with samples, and additional tips.
- PART III: Assessment—a half-length Mini-Test to assess your strengths and weaknesses.
- PART IV: Subject Area Reviews—intensive reviews of the important areas including arithmetic, algebra, and geometry.
  - PART V: Practice-Review-Analyze-Practice—two complete full-length practice tests with answers and in-depth explanations.

The Mini-Test and each practice test are followed by analysis charts and score approximators to assist you in evaluating your progress.

These guides are not meant to substitute for comprehensive courses, but if you follow the Study Guide Checklist and study regularly, you will get the best test preparation possible.

### STUDY GUIDE CHECKLIST

 1.	Read the GED information materials available at your local GED
•	center. Check minimum score, age, and residence requirements.
	Become familiar with the Test Format, page 3.
 3.	Read the General Description and Questions Commonly Asked about the New GED Test Battery, starting on page 3.
 4.	Learn the techniques of A Systematic Overall Approach, page 6.
	Carefully read Part II, Analysis of Exam Areas, starting on page
	9.
 6.	Take the Mini-Test Assessment, starting on page 31.
	Check your answers and analyze your results, page 41.
	Fill out the Tally Sheet for Questions Missed to pinpoint your
	mistakes, page 43.
 9.	Take the Arithmetic Diagnostic Test and correct your answers,
	pages 54-55.
 10.	Review Arithmetic as needed, starting on page 56.
	Take the Algebra Diagnostic Test and correct your answers, pages
	71–72.
 12.	Review Algebra as needed, starting on page 72.
	Take the Geometry Diagnostic Test and correct your answers,
	pages 81-84.
 14.	Review Geometry as needed, starting on page 85.
	Strictly observing time allotments, take Practice Test 1, starting
	on page 113.
 16.	Check your answers and analyze your Practice Test 1 results, page
	126.
 17.	Fill out the Tally Sheet for Questions Missed to pinpoint your
	mistakes, page 128.
 18.	While referring to each item of Practice Test 1, study ALL the
	Answers and Explanations that begin on page 129.
 19.	Review weak areas as necessary.
	Strictly observing time allotments, take Practice Test 2, starting
	on page 147.
 21.	Check your answers and analyze your Practice Test 2 results, page
	160.
 22.	Fill out the Tally Sheet for Questions Missed to pinpoint your
	mistakes.
 23.	While referring to each item of Practice Test 2, study ALL the
	Answers and Explanations that begin on page 163.
 24.	Review weak areas as necessary.
	Review How to Take the Test, starting on page 9.
	Carefully read Final Preparation: "The Final Touches," page
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## **PART I: Introduction**

#### FORMAT OF THE NEW GED MATHEMATICS TEST

Time: 90 Minutes

50 Questions

#### CONTENT AREAS

Arithmetic	about 55%
Algebra	about 25%
Geometry	about 20%

About 15% to 20% of the questions refer to charts, tables, or graphs.

#### GENERAL DESCRIPTION

The Mathematics Test lasts 1½ hours (90 minutes) and consists entirely of multiple-choice questions. The test contains 50 questions focusing on arithmetic, algebra, and geometry, with some graphs, tables, and charts. Emphasis is placed on arithmetic and real-life problems. The test is scored from 20 to 80 with all questions being of equal value.

# QUESTIONS COMMONLY ASKED ABOUT THE NEW GED TEST BATTERY

- Q: Who administers the GED Test Battery?
- A: The GED Test Battery is administered by the GED Testing Service of the American Council on Education (ACE). The test development was conducted by Educational Testing Service with the guidelines drawn up by experienced secondary school educators.
- Q: When are the GEDs given?
- A: The tests are administered nationwide on a continuous basis. You can get administration dates and test locations by contacting your local GED testing centers, high schools, or adult schools.
- Q: Do I have to take the complete battery of tests at once?
- A: No! You may take one, two, three, four, or all five of the tests on the same day.
- Q: Can I take the GEDs more than once?
- A: Yes! You may take any or all of the tests more than once. But remember, your plan is to pass on the first try.
- Q: Are there any special editions of the GED?
- A: Yes! In addition to the English version, the GED is also given in Spanish and French. There are also special large-print and/or tape-recorded editions for handicapped candidates.
- Q: What is a passing score?
- A: There are no national standards for the GEDs. Each state has established its own standards for passing the tests. In many cases you need only 40% correct to pass. The Appendix includes a chart to give you an indication of previous requirements. Each candidate should check the up-to-date policies in his or her specific state. It should be noted that some states require candidates to pass each test, while others require the average score of the tests to be passing.
- Q: What grade level are the tests?
- A: The tests are standardized to reflect the range of knowledge and ability of twelfth grade students who are certain to graduate.
- Q: How are the new GEDs different from the old GEDs?
- A: The new GED Test Battery was shortened in allotted time, with fewer questions in each test. The Social Studies and Science Tests now include general knowledge questions and shorter reading passages. The

Writing Skills Test, formerly the Test on Correctness and Effectiveness of Expression, now includes logic (not formal logic) and organization questions. The Reading Skills Test now draws more information from modern literature and everyday reading. The Math Test is basically the same.

- Q: How should I prepare?
- A: Understanding and practicing test-taking strategies will help a great deal, especially on the reading comprehension type questions. Subject matter reviews, by reviewing major concepts and important terminology, are invaluable. Both subject matter and strategies are covered in this book. Also, many states offer preparation programs to assist students. Check with your local high school, adult school, or occupational center for further information.
- Q: Should I guess on the tests?
- A: Yes! Since there is no penalty for guessing, GUESS if you have to. If possible, first try to eliminate some of the choices to increase your chances of choosing the right answer.
- Q: How and when should I register and where can I get more information?
- A: This information is available from your local GED Testing Center, or write to General Educational Development, GED Testing Service of the American Council on Education, One Dupont Circle, Washington, D.C., 20036.

#### A SYSTEMATIC OVERALL APPROACH

Many who take the GED don't get the scores that they deserve because they waste time on hard questions, leaving insufficient time to answer the easy questions. Don't let that happen to you. Use the following system to mark your answer sheet:

- 1. Answer easy questions immediately.
- 2. Mark a "+" next to the number of any question that seems solvable but very difficult. Go on to the next question.
- 3. Mark a "-" next to any question that seems impossible. Go on to the next question.

The strategy is to defer difficult and impossible questions. Act quickly. Don't waste time deciding whether a question is a "+" or a "-."

Your answer sheet should look something like this after you finish answering your easy questions:

Then go back and answer your difficult (+) questions. By now they may seem easier, after your mind has worked on other questions. Finally, use educated guesses to answer the impossible (-) questions. Remember, there is no penalty for guessing and it is unwise to leave any question unanswered.

Make sure to erase your "+" and "-" marks just before the end of the test, as stray marks on the answer sheet can confuse the scoring machine.

Practice this Systematic Overall Approach on the tests in this book, so it becomes a habit for the actual GED Mathematics Test.

# PART II: Analysis of Exam Areas

This section is designed to introduce you to the GED Mathematics Test by carefully reviewing the

- 1. Ability Tested
- 2. Basic Skills Necessary
- 3. Directions
- 4. Analysis of Directions
- 5. Suggested Approach with Samples

The emphasis in this section is on test-taking strategies and techniques.