GED Math Test-Taking Strategies & Calculator Skills Part 1

Kellie Blair Hardt, Presenter

Hardt2heart Adult Education Services GED Testing Service, Board of Directors



Before We Get Started



During the webinar, **please:**

- 1. Keep your sound and video **muted**. This will limit background noise.
- 2. Ask questions using the chat function.
- ²3. Keep in mind that the session is being **recorded** for future viewing.
- 4. The session and all associated materials will be posted on the GED website at:





- "From Test-Takers to Change Makers"
 GED Testing Service Podcast-
- "Dropping Back In" Kellie's Story-
- -Kellie Gets A GED Coloring Book-

- Meet GEDTS Board Member, Kellie B. Hardt-

Kellie Blair Hardt

- 20+ years of experience as a Math & Science educator (middle school, high school, and GED)
- Adult Education Advocate & GED Math Tutor
- Bachelor's degree in Psychology, Master's degree in Special Education, Doctoral work in Adult Education (in progress)
- Hardt2Heart Adult Education Service, LLC
- Board Member @ GEDTS
- GED Graduate!





Provide an **interactive** and **practical** session designed to empower fellow educators with strategies that **immediately impact learner performance**—bridging the gap between struggle and success!

Proven test-taking strategies that help learners overcome common math challenges while taking the GED math exam

V Engaging, hands-on techniques to boost comprehension and reduce errors

Step-by-step guidance on **maximizing the TI-30XS Multiview calculator** for success

V Leave with ready-to-use tools for immediate classroom application



About That Math Exam Strategies For All Levels:

- Provide and practice the formula sheet in class often, especially surface area & volume and algebra sections (slopes, quadratic, etc.), no matter content level of class.
- Know how to use calculator (TI-30XS Multiview), and promote calculator practice in class, no matter learner level; even during non-calculator practice problems.

- Create your own learner account using last name as **"CANDIDATE."**
- Take the GED READY PRACTICE TEST several times & utilize GED FLASH.



GED Knowledge & Skills Gaps

Algebraic Computations



Indicators:

factoring, computing w/linear expressions computing w/polynomials factoring polynomials

Skills:

add/subtract multiply/divide multiple operations **quadratic equations** $3x^2 + 7x - 6$

$$\bigcirc A. (x - 6)(3x + 1)$$

- **B.** (x 3)(3x + 2)
- \circ **C.** (x + 3)(3x 2)
- OD. (x + 6)(3x 1)

Join the Quad Squad!

We're Practicing with the Quadratic Formula & Factoring?!

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

$$1x^2 + 5x + 6 = 0$$



BASIC SKILLS w/ ANDRAGOGICAL APPROACH:

+-×÷

Fractions Order of Operations Integers Squares & Square Roots Factoring Using Quadratic Formula!

Learn several calculator functions with one type of problem!



About That Calculator: TI-30XS Multiview





-Google Play Phone App-



-Computer Emulator -

-TI-30xs Guide for Teachers-



Before We Begin Our Practice

Solving With & Without The Calculator

WITHOUT:

Skills Development Fundamental Understanding Critical Thinking

WITH:

Error Reduction Efficiency

Confidence Building





Roll-Up Your Sleeves- Ready, Set, Let's Go!

Basic math for:

QUADRATIC EQUATIONS

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





Solve the quadratic equation: x² + 8x = -15

Click Present with Slido or install our <u>Chrome extension</u> to activate this poll while presenting.



...but wait, there's more!

Quadratic Equations Resources





Roll-Up Your Sleeves- Ready, Set, Let's Go!

Quadratic Formula for :

FACTORING POLYNOMIALS

$$\begin{array}{c}
 b^{2} + 8b + 7 \\
 (b + 7)(b + 1) \\
 2k^{2} + 22k + 60 \\
 (3x - 7)(2x + 7) \\
 2(k + 5)(k + 6)
\end{array}$$





2. Factor the polynomial: 12k² – 7k - 12

Click Present with Slido or install our <u>Chrome extension</u> to activate this poll while presenting.



...but wait, there's more!

Factoring Polynomials Resources





See You Next Time:GED Math Test-Taking Strategies & Calculator Skills Part 2

Slopes/Graphing/Linear Equations

Indicators

2y = 3x - 18 $y = \frac{3}{2}x - 9$

calculate slope from a table, graph or equation write & graph a two-variable equation in slope-intercept form

Related indicators

unit rate as slope

writing equations from points and/or slope; working with parallel and perpendicular slopes







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Next Tuesdays for Teachers: May 20, 2025

Website Link: ContactUs@GED.com

