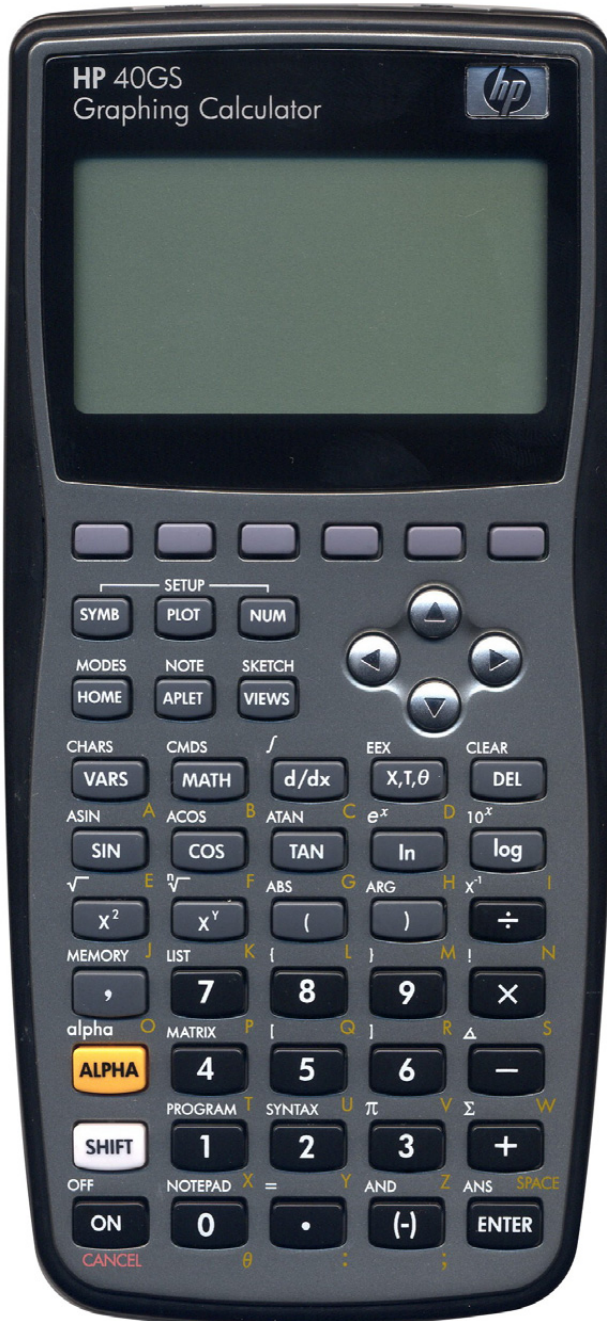


Graphing Calculator

40GS

Description : Graphing Calculator for maths students.



Electronic Specification

CPU	75Mhz ARM9
Display size	131 x 64 pixels
Display type	Pixel
Memory	RAM: 256 KB
Serial port	USB, RS232 for connections to equipment such as PC's, Datalogers, surveying equipment, etc
Power Supply	AAA x 4 + CR2032

Battery life Approximately 54 Days

Material Specification

Enclosure/Key Top Material	Plastic / Plastic
Size (LxWxD)	184.0x87.0x23.5 mm
Weight	Approximately 220 g
Accessories	Slide on cover for screen protection

■ Leading-edge design

Smooth edges, streamlined curves, and a sleek, sturdy shape make the HP 40g comfortable for either hand-held or desktop use. It comes in a cool, light metallic blue with a translucent blue slide-on cover that keeps the screen and keyboard safe when not in use. The HP 40g+ keyboard is very friendly-large keys with soft edges and wide key spacing help you steer clear of keystroke errors.

■ See more on the big screen

Get the big picture: input and view equations and expressions on the large, 131 x 64 pixel, high-contrast screen in textbook mode, then see them just as they appear in textbooks or on the blackboard.

■ Make statistical inferences

With the HP 40g+, you can go beyond analyzing sample data: you can perform hypothesis tests, measure confidence intervals that relate to a population. The 40g+ lets you input, view and edit sample data in a table format, like you would in a computer spreadsheet or table, then plot the results once you're finished editing.

■ E-lessons

E-lessons (aplets) are an outstanding new learning tool from Hewlett-Packard. Adapted from topics in textbooks, applets are electronic lessons packaged to help you learn math and science. Master new math concepts as you explore at your own pace. e-lessons are so simple to work with, you can create your own, and so much fun you'll want to. 6 e-lessons built in: 2*2 and 3*3 linear system, Triangle solver, Equation solver, Quadratic and trigonometric explorer.

■ Dynamic split screen

With the 40g+'s split screen you can have your cake and eat it too. See math relationships in two displays on one screen for useful side-by-side comparison.

■ Interactive history of calculations

This feature lets you recall and reuse previously created solutions.

■ Dynamic teaching

Using the built-in trig and quadratic explorer, explore sine, cosine or quadratics in real-time. Control your graphs and equations, and see how they relate to one another

■ Communication in hand

Your HP 40g+ can be connected directly to your personal computer and has support for an overhead display unit. The 40g+ can also communicate with other calculators: using the two-way infrared port you can send data, equations, notes and even e-lessons to friends and classmates, from one 40g+ to another. The infrared port is built-in so there's no need for an extra cable.

■ Other special operating features:

- ◆ Easy-to-read keys and menus that are grouped together for fast access.
- ◆ Data entry in simple algebraic notation that looks and works just like equations written on paper.
- ◆ Over 600 functions available at the touch of a button: you spend less time reading manuals and

more time learning.

- ◆ 256KB of built-in memory-the 40g+ is amazingly powerful. See notes, sketches, equations, formulas, graphs and even e-lessons.
- ◆ Display modes includes: standard, proper and mixed fraction, scientific, fix and engineering.
- ◆ Library of 29 physical constants.
- ◆ System Flash ROM for future electronic system upgrades.

■ Math features include:

- ◆ Algebra features: factorization, expansion, substitution, systems of linear equations, linear algebra and matrices, among others
- ◆ Trigonometry (trig and hyperbolic functions, degrees, radians)
- ◆ Lists and Sequences
- ◆ Exponential and Logarithmic functions
- ◆ Permutations, Combinations and Factorials
- ◆ Differentiation and Integration
- ◆ HP Equation Solver
- ◆ Metric/Imperial conversions.
- ◆ +, -, x, ÷, $\sqrt{\quad}$, 1/x, +/-, ln, e^x , x^y
- ◆ y^x , LOG, 10^x , x^2 , %, π , n!
- ◆ Fractions
- ◆ Degrees, radians, or grads mode
- ◆ Trigonometric functions/ inverses
- ◆ Hyperbolic/inverses
- ◆ CAS system
- ◆ Numeric Integration
- ◆ Symbolic Integration
- ◆ Numeric differentiation
- ◆ Symbolic differentiation
- ◆ Complex number functions
- ◆ Taylor series

■ Statistical features include:

- ◆ Descriptive Statistics (lists, single and two variables, frequencies, regression, summary statistics)-Sample data input, editing, plotting and viewing has never been easier.
- ◆ Use sample data descriptions to make inferences-make and measure inferences about the population of interest with hypothesis tests and confidence intervals.
- ◆ 10 fits: Linear, Logarithmic, 2 exponentials, power, quadratic, Cubic, Logistic, Trigonometric or user defined.

■ Graphing features include:

- ◆ Expanded plotting possibilities-plot types include function, parametric, polar, conic, sequence and statistical plots.
- ◆ Function analysis-root, extrema, slope, area and intersection
- ◆ Plotting with tracing and zooming
- ◆ Graphic, symbolic and numeric views

■ Test suitability

The HP 40g+ is permitted for use on College Board* Tests: AP*, SAT* and PSAT/NMSQT. (* College Board, AP and SAT are registered trademarks of the College Entrance Examination Board).