NEW SPECIAL fx

THE CASIO fx-8200 AU



BOOKLIST FOR BACK TO SCHOOL 2025



THE NEW CASIO fx-8200 AU



Distribution

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Vector

CLASSWIZ

CASIO fx-8200 AU

Table

HOME

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Statistics

ūΖ

Complex

Retaining all the great features of the fx-82AU PLUS II and fx-100AU PLUS 2nd edition, the fx-8200 AU brings a significant increase in functionality and user experience, bringing Australia's leading scientific calculator into the 21st century.

While the much-loved fx-82AU PLUS II 2nd edition continues to be a staple of Australian mathematics technology, Casio has worked with Australian teachers to evolve and design a tool that better suits the needs of scientific calculator users in Australia.





PROBABILITY CALCULATIONS WITH EASE

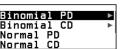
If $X \sim N(30,5^2)$, then P(X > 33.2) = ?

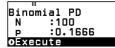


What is the height of the shortest person in the top 10% of the height (H) distribution $H \sim N(161.8, 5.6^2)$?

Inver:	se Normal :0.9 :161.8	xInv=	
σ	:5.6	J ∟	168.9766892

Let X be the number of 6s that result when a fair die is rolled 100 times. What is the most likely value of X?











INVESTIGATE FUNCTIONS BY TABULATING VALUES **OF f** *X* & **g** *X*

How is the function $g(x) = (x-2)^2$ different from $f(x) = x^2$?

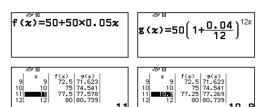
√6/ B 2	
f(x)=x²	8
1	11

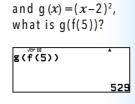
g(x)=(x-2)2



If $f(x) = x^2$ what is q(f(5))?

Solve $50+50\times0.05x=50\times(1+\frac{0.04}{12})^{12x}$



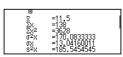


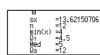


ALL SUMMARY STATISTICS AND REGRESSION INFORMATION IN LESS KEY PRESSES AND DISPLAYED ALL AT ONCE

Calculate the summary statistics for the data set: 4, 4, 4, 5, 5, 5, 5, 7, 9, 15, 25, 50.









Determine the least squares regression line for:

Х	1	2	3	4	5		
у	4.1	4.9	5.8	7.1	8.2		

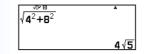






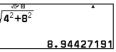
THERE HAVE ALWAYS BEEN **DECIMAL APPROXIMATIONS BUT NOW... EXACT VALUE OUTPUT AS WELL**

What is the length of the hypotenuse of a right-angled triangle with perpendicular sides of length 4 cm and 8 cm?



shift key,

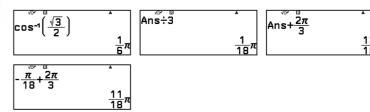




What is the area of an equilateral triangle with side length 1.25 cm?



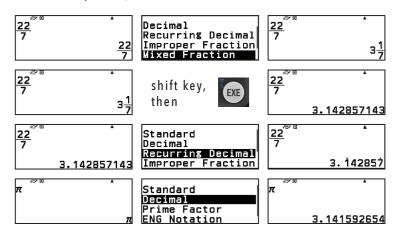
Solve $\cos(3x) = \frac{\sqrt{3}}{2}$ for $0 \le x \le \pi$.





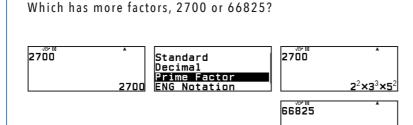
THINK ABOUT DIFFERENT FORMS OF A NUMBER USING

How does $\frac{22}{7}$ compare to π ?



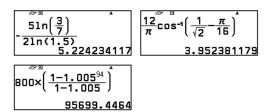
What number has the decimal form $0.\overline{252}$? What about $0.\overline{123}$? What is going on here?

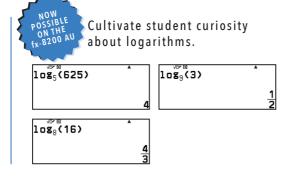
0. 252 28 111



THE CASIO fx-8200 AU WILL TAKE ALL YOUR STUDENTS FROM YEAR 7 TO 12* AND BEYOND

Calculations required in examinations, displayed as you have come to expect.





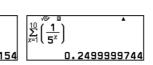
Think about how the GCD and LCM are related.





Investigate interesting summations.

$$\frac{1}{d} + \frac{1}{d^2} + \frac{1}{d^3} + \frac{1}{d^4} + \dots + \frac{1}{d^n} = \sum_{x=1}^n \frac{1}{d^x} = ? \begin{bmatrix} \frac{1}{10} \sqrt{\frac{n}{2}} & \frac{1}{10} \\ \sum_{x=1}^{n} \left(\frac{1}{4^x} \right) & 0.3333330 \end{bmatrix}$$



35×52×11

Continued on next page.



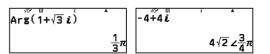
$$\frac{7}{9} \times \frac{26}{28} \times \frac{63}{65} \times \frac{124}{126} \times \dots \times \frac{x^n - 1}{x^n + 1} = \prod_{x=2}^n \frac{x^3 - 1}{x^3 + 1} = ?$$

 $\begin{bmatrix}
\frac{5}{1} \left(\frac{\mathbf{x}^{3} - 1}{\mathbf{x}^{3} + 1} \right) & \mathbf{x} \\
0.68888888889
\end{bmatrix}
\begin{bmatrix}
\frac{10}{10} \left(\frac{\mathbf{x}^{3} - 1}{\mathbf{x}^{3} + 1} \right) & \mathbf{x} \\
0.6727272727
\end{bmatrix}
\begin{bmatrix}
\frac{50}{10} \left(\frac{\mathbf{x}^{3} - 1}{\mathbf{x}^{3} + 1} \right) & \mathbf{x} \\
0.666928100
\end{bmatrix}$

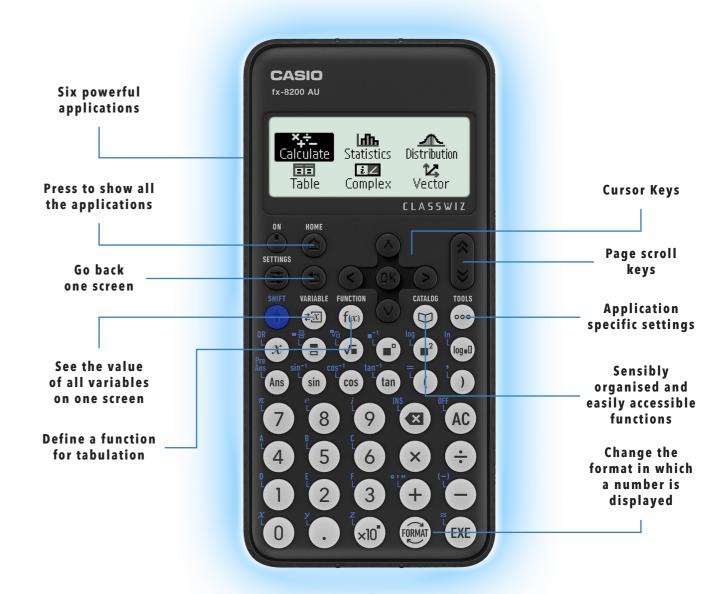
Vector calculations.



Complex number calculations.



fx-8200 AU AT A GLANCE





^{*}Except in instances where a graphing or CAS calculator is required.

fx-100AU PLUS 2ND EDITION VS fx-8200 AU

The fx-100AU PLUS 2nd edition has been discontinued. If you currently use the fx-100AU, support is available to you and your colleagues and students as you transition to the fx-8200 AU scientific calculator. There are a few new features alongside familiar favourites from the fx-100AU PLUS available on the fx-8200 AU:

NEW: SIMPLE STATISTICS

Show summary statistics all together on one screen, without needing to calculate each one separately.

NEW: TABLE OF VALUES

Investigate functions by tabulating values of f(x) and g(x).

NEW: EXACT VALUES

Display answers in exact value format, as well as decimal approximation. Easily switch between forms of your answer with the press of the 'Format' button.

UPDATED: DISTRIBUTION

Compared to the fx-100AU which had limited probability calculations, you can now calculate normal and binomial probabilities, with ease

SAME AS THE fx-100AU PLUS:

ADVANCED CALCULATIONS

- Complex numbers
- Prime Factorisation, GCD & LCM
- Vectors
- Summation of a series
- Product of a series



HOW TO VIDEOS FOR THE fx-8200 AU

Our range of video tutorials will help you and your students get up and running. Scan to watch.



HOW DOES THE CASIO fx-8200 AU COMPARE?

Feature	fx-8200 AU	fx-82AU PLUS II 2nd edition	fx-100AU PLUS 2nd edition
Available as of 2025	Yes	Yes	Discontinued
All the expected basic calculator functionality	✓	✓	✓
Natural (textbook) display	✓	✓	✓
Prime factorisation, GCD & LCM	✓	✓	✓
Verify	✓	✓	✓
Vector calculations	✓	×	✓
Complex number calculations	✓	×	✓
Exact value output	✓	×	×
Probability calculations	(Normal, binomial and more user friendly)	×	(Limited)
Vastly improved statistics interface	✓	×	×
Tabulate	✓	×	×
Logarithms of any numerical base (as well as 10 and e)	~	×	×
New and unambiguous way to convert between forms of numbers	~	×	×
Recurring decimals, output and calculations	~	×	×
Summation and product of series	✓	×	×
Modern user interface, paving the way for future improvements	~	×	×
Easy-to-use web-based emulator	✓	×	×

Get more than just a calculator when you booklist or purchase fx-8200 AU.



NEW web-based emulator software, free to Casio schools coming soon



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