NEW SPECIAL fx

THE CASIO fx-8200 AU



BOOKLIST FOR BACK TO SCHOOL 2024



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**

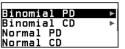
If $X \sim N(30,5^2)$, then P(X > 33.2) = ?

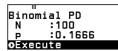
Normal CD Lower:33.2

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

Inverse Normal	xInv=
Area :0.9	i I
μ :161.8	
σ :5.6	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)

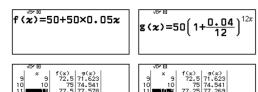
How is the function $g(x) = (x-2)^2$ different from $f(x) = x^2$?

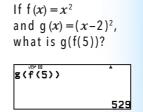
f(**x)=x**²

 $g(x)=(x-2)^2$



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





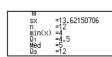


ALL SUMMARY STATISTICS AND REGRESSION INFORMATION IN LESS KEY PRESSES AND DISPLAYED ALL AT ONCE

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



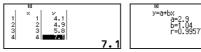






Determine the least squares regression line for:

Х	1	2	3	4	5	
у	4.1	4.9	5.8	7.1	8.2	





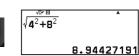


THERE HAVE ALWAYS BEEN **DECIMAL APPROXIMATIONS BUT NOW... EXACT VALUE OUTPUT AS WELL**

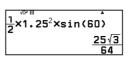
What is the length of the hypotenuse of a right-angled triangle with perpendicular sides of length 4 cm and 8 cm?



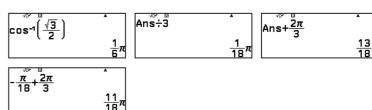
shift key,



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



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

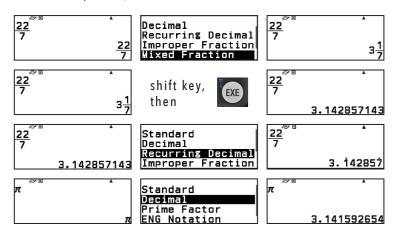


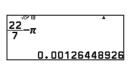




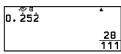
THINK ABOUT DIFFERENT FORMS OF A NUMBER USING

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

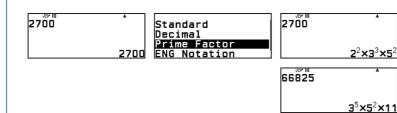




What number has the decimal form $0.\overline{252}$? What about $0.\overline{123}$? What is going on here?

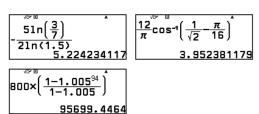


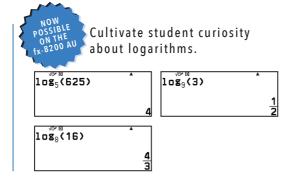
Which has more factors, 2700 or 66825?



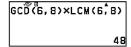
THE CASIO fx-8200 AU WILL TAKE ALL YOUR STUDENTS FROM YEAR 7 TO 12* AND BEYOND

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





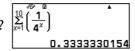
Think about how the GCD and LCM are related.

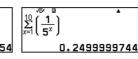




Investigate interesting summations.

$$\frac{1}{d} + \frac{1}{d^2} + \frac{1}{d^3} + \frac{1}{d^4} + \dots + \frac{1}{d^n} = \sum_{x=1}^n \frac{1}{d^x} = ? \begin{bmatrix} \frac{10}{2} & \frac{1}{4} \\ \frac{1}{4} & \frac{1}{4} \end{bmatrix}$$





Continued on next page.



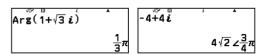
$$\frac{7}{9} \times \frac{26}{28} \times \frac{63}{65} \times \frac{124}{126} \times \dots \times \frac{x^n - 1}{x^n + 1} = \prod_{x=2}^n \frac{x^3 - 1}{x^3 + 1} = ?$$

 $\begin{bmatrix} \frac{1}{5} \begin{pmatrix} \frac{x^3}{2} - 1 \\ x^3 + 1 \end{pmatrix} & \frac{1}{2} \begin{pmatrix} \frac{x^3}{2} - 1 \\ x^3 + 1 \end{pmatrix} & \frac{1}{2} \begin{pmatrix} \frac{x^3}{2} - 1 \\ x^3 + 1 \end{pmatrix} & \frac{1}{2} \begin{pmatrix} \frac{x^3}{2} - 1 \\ x^3 + 1 \end{pmatrix} & 0.66692810 \end{bmatrix}$

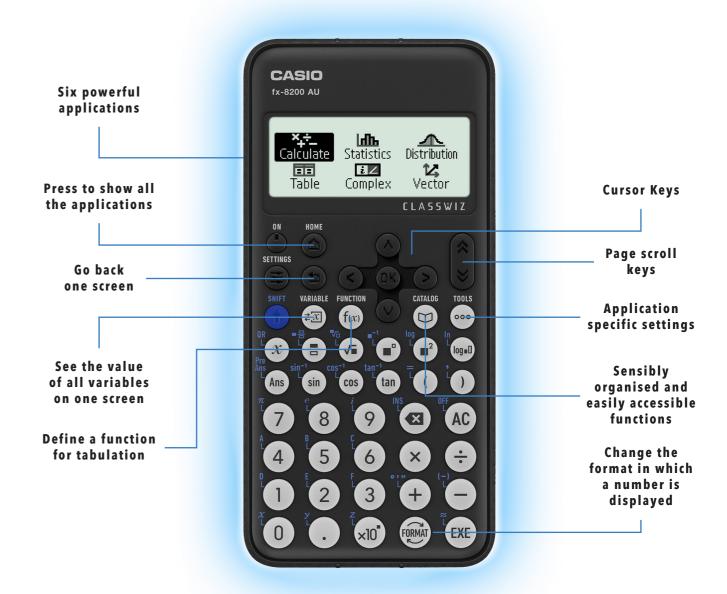
Vector calculations.

VctAxVctB

Complex number calculations.



fx-8200 AU AT A GLANCE





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

fx-82AU PLUS II 2ND EDITION

Australia's leading scientific calculator is still here, to serve you and your students.



Calculation of the median and quartiles Q1 STATE ST

fx-100AU PLUS 2ND EDITION

The wonderful 100 is also still here to serve your students.

If $Z \sim N(0,1)$

a. find $P(-2 \le Z \le 2)$

P(2)-P(-2) 0.9545 R(-2.1) 0.98214

b. find P(Z > -2.1)

c. find P(0 < Z < 1.8) Q(1.8)0.46407

Vector arithmetic

VctA×(-2×VctB)

Ans 1 -24 50 -37 6

Complex number calculations

Conjg((2+i)²-i)
3-3i

Measurement - 40 different unit conversions

60km/h▶m/s

16.66666667



HOW DOES THE CASIO fx-8200 AU COMPARE?

Feature	fx-8200 AU	fx-82AU PLUS II 2nd Edition	fx-100AU PLUS 2nd Edition
RRP	\$49.95	\$44.95	\$54.95
All the expected basic calculator functionality	~	✓	✓
Natural (textbook) display	✓	✓	✓
Prime factorisation, GCD & LCM	✓	✓	✓
Verify	✓	✓	✓
Measurement conversions	X	×	✓
Vector calculations	✓	X	✓
Complex number calculations	✓	×	✓
Exact value output	✓	X	X
Probability calculations	(Normal, binomial and more user friendly)	×	(Seriously limited)
Vastly improved statistics interface	✓	X	×
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	✓	X	×
Summation and product of series	✓	×	×
Modern user interface, paving the way for future improvements	~	×	×

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