CASIO

Simply Calculate The Difference!

QUICK START GUIDE
fx-300ES PLUS
2nd EDITION

Use the ON key to turn the calculator on, and press SHIFT AC (OFF) to power the unit down.

The MODE key allows you to choose between Computation, Statistics, or Table Mode. SHIFT MODE (SETUP) allows you to make changes to the calculator settings.

To enter a fraction, press ▭ and enter your numerator and denominator. The S⇔D key toggles your calculation results between Standard and Decimal forms.

Press (−) to input a negative value or variable.

Press AC to clear out anything typed or the entire screen.

YOUR 360° SOLUTION
Technology
Training
Resources
Integration

The following explains the meaning of each mode on the fx-300ES Plus 2nd Edition:

MENU NAME	DESCRIPTION
COMP	This mode performs general calculations.
STAT	This mode performs statistical and regression calculations.
TABLE	This mode generates a numerical table based on one or two functions.

To calculate and solve basic expressions, press MODE 1 to enter COMP mode.

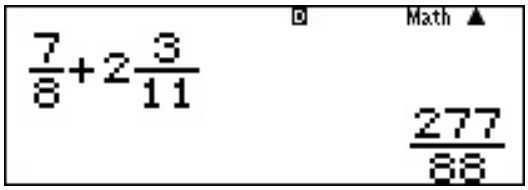
To make any changes to the calculator settings, press SHIFT MODE (SETUP).

COMP MODE

Inputting a Fraction & Converting to Decimal Form:

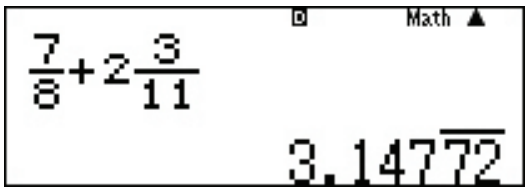
1. To solve $\frac{7}{8} + 2\frac{3}{11}$, press

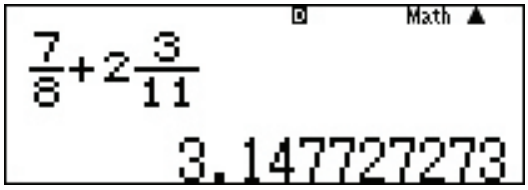
   [▭/▭] [7] [▶] [8] [▶] [+] [SHIFT] [▭/▭] [2] [▶] [3] [▶] [1] [1] [=].



2. To view the solution as a decimal, press [S⇔D].

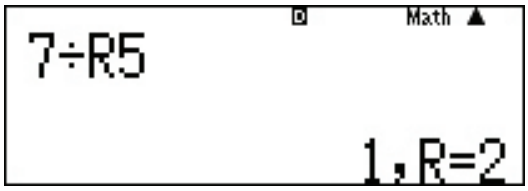
   Note: press [S⇔D] again to see the entire decimal answer. Pressing once more will display the fraction solution again.





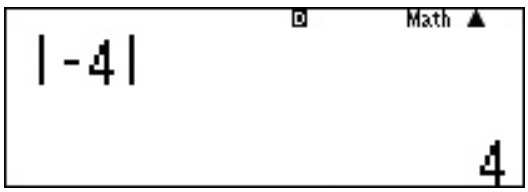
To Find the Remainder of a Division Problem:

1. To find the remainder of 7 divided by 5, press [7] [SHIFT] [Abs] [5] [=].



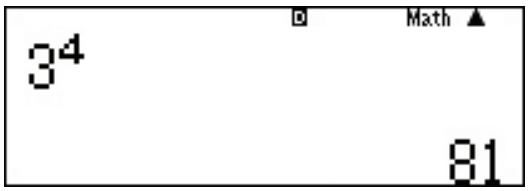
Absolute Value:

1. To find the absolute value of -4, press [Abs] [(−)] [4] [=].



Exponents:

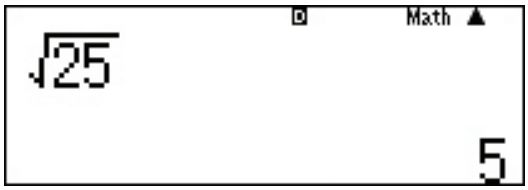
1. To evaluate 3^4, press [3] [$x^{■}$] [4] [=].



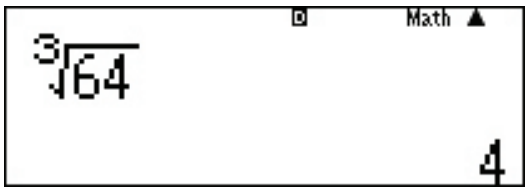
COMP MODE

Roots:

1. To calculate the square root of 25, press [√] [2] [5] [=].



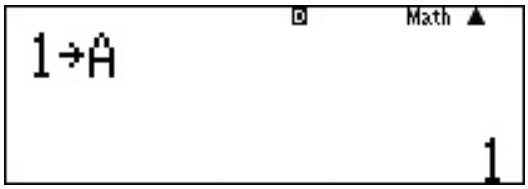
2. To calculate the cube root of 64, press [SHIFT] [$x^{\square}$] [3] [▶] [6] [4] [=].



Storing Variables:

To store a value for any variable, press [SHIFT] [RCL] followed by a variable, A – F. In this example, we will store a value of 1 for the variable A.

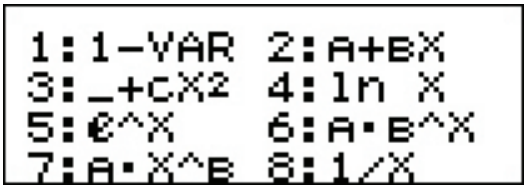
1. Press [1] [SHIFT] [RCL] [(–)].



STAT MODE

To start a statistical calculation, press MODE 2 to enter STAT mode and use the screen that appears to select the type of calculation you want to perform.

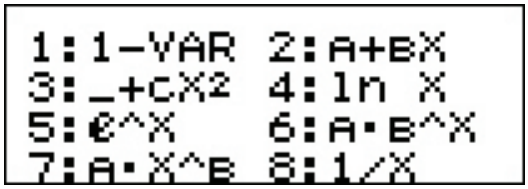
Note: When you want to change the calculation type after entering STAT mode, press SHIFT 1 (STAT/DIST) 1 (Type) to display the calculation type selection screen.



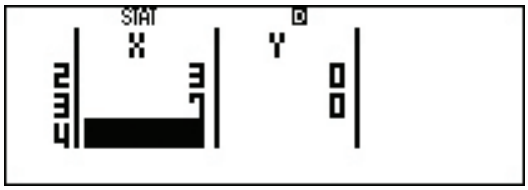
Enter the data points and find the linear regression formula.
(2, 5) (3, 8) (7, 20)

Entering Data:

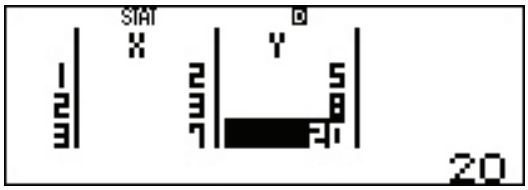
1. From the initial Stat screen, press 2 (A+BX) for a linear regression.



2. Enter the x-values into the table by pressing 2 = 3 = 7 =.

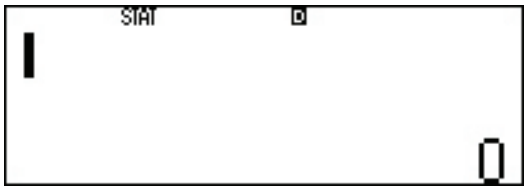


3. Use the arrow keys to move to the top of the y-column and enter the y-values by pressing 5 = 8 = 2 0 =.



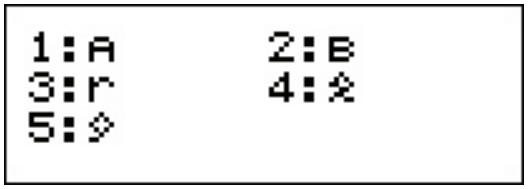
Finding a Regression:

1. To find the regression equation, press AC to clear the screen.

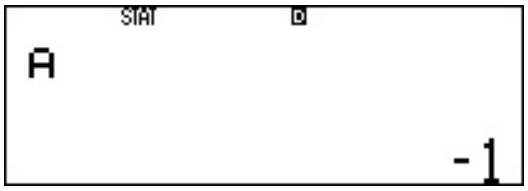


2. Press SHIFT 1 (STAT) to display the Statistics Menu.

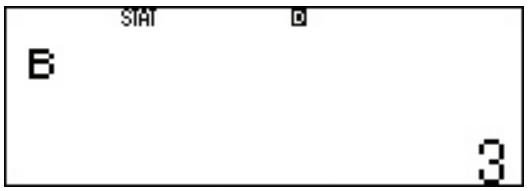
3. Press 5 (Reg) to find the coefficients for the linear regression equation.



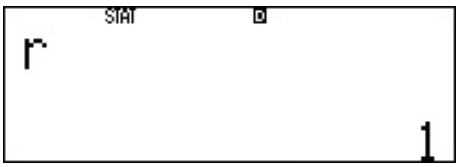
4. Press 1 (A) = to find the value of **A**.

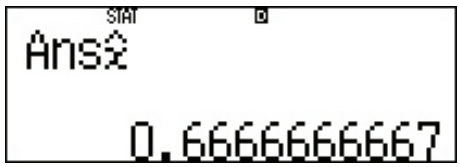


5. To find the value of **B**, repeat the process. Press SHIFT 1 5 2 (B) =.



6. The values of the correlation coefficient (**r**), the estimated value of X ($\hat{x}$), and the estimated value of Y ($\hat{y}$) can also be found.





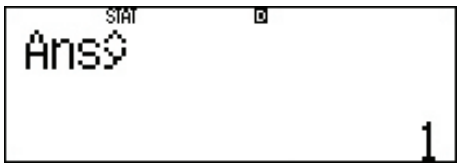
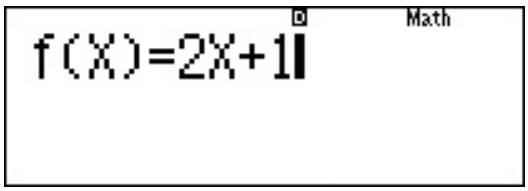


TABLE MODE

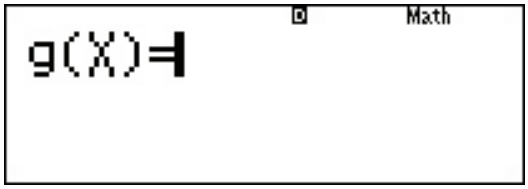
TABLE generates a number table based on one or two functions, entered as f(x) and/or g(x). Press MODE 3 to enter TABLE mode.

Note: Be sure to input the x variable (ALPHA)) when generating a number table. All other variables will be handled as constants.

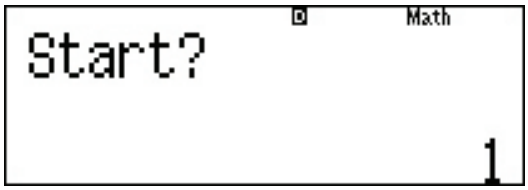
1. Enter the function (f)x = 2x + 1 by pressing 2 ALPHA) + 1.



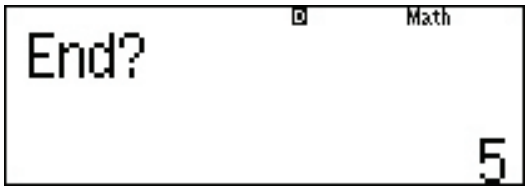
2. Press = to store that function. Another function can be entered to compare the two functions. Press = to move to the next screen and only have one function entered.



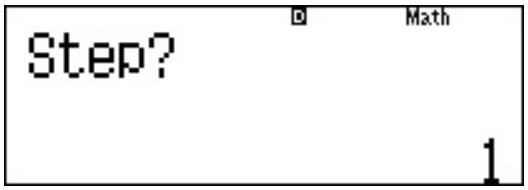
3. Set a starting x-value for the table. The default value is 1. To change the value, enter the new value and press =. To keep the existing value, press =.



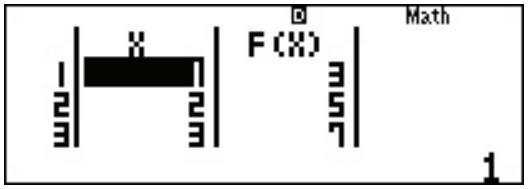
4. Next, set an ending x-value for the table. The default value is 5. To change the value, enter the new value and press =. To keep the existing value, press =.

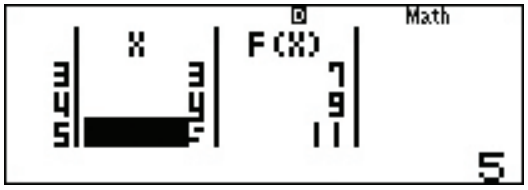


5. Set a step value for the table. The default value is 1. To change the value, enter the new value and press =. To keep the existing value, press =.



6. Use the ▲ and ▼ arrows to scroll through the entire table.





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