

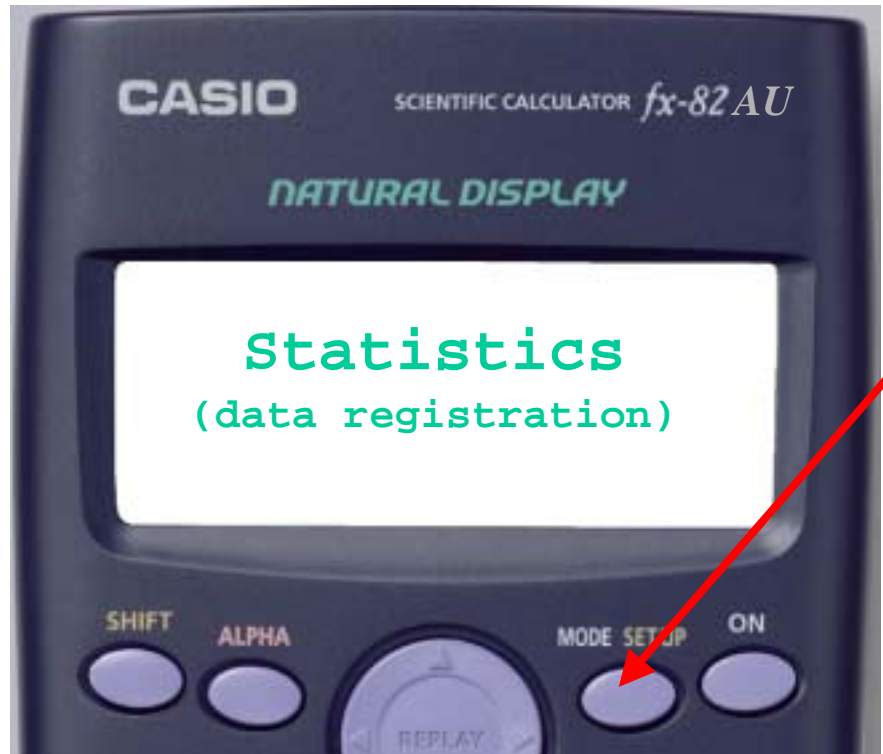
Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
103	46.4
118	48.9



To start, press

MODE **2** (STAT) **2** (A+BX)

Scientific Calculator FX-82AU

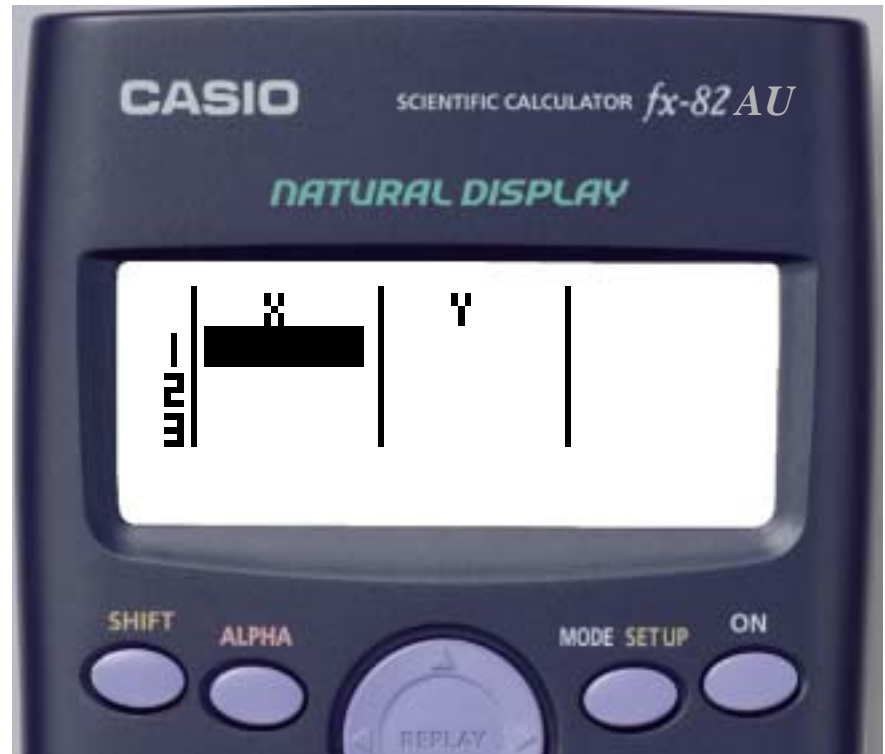
Natural Textbook Display

Example :5

Explore the following statistical data.

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29	1.6
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103	46.4
118	48.9

enter x value...



<< Next key sequence >>

2 **9**

Scientific Calculator FX-82AU

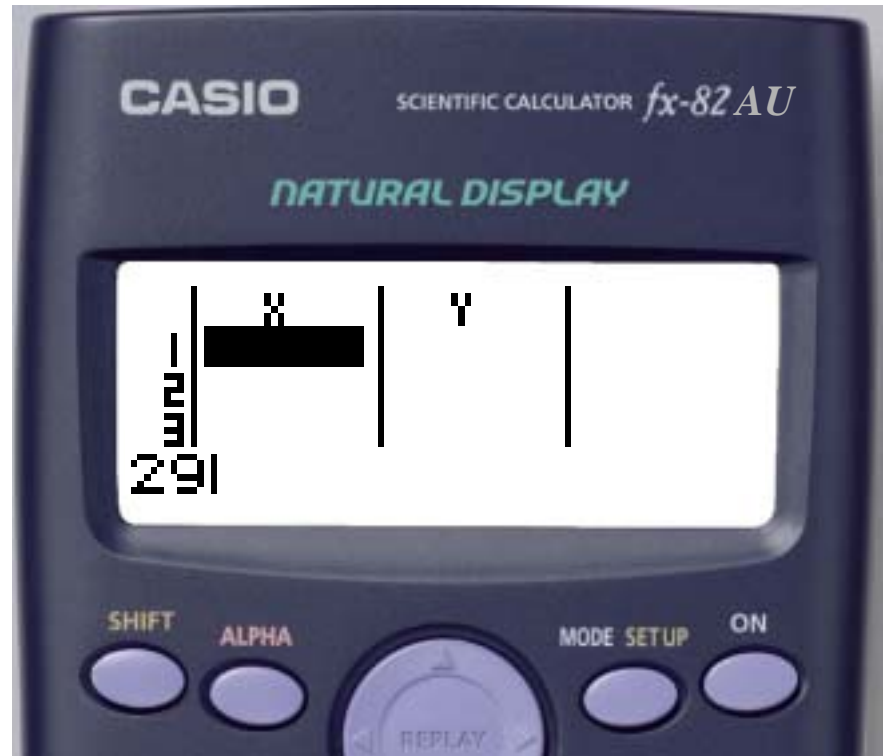
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
103	46.4
118	48.9

registering a value...



<< Next key sequence >>



Scientific Calculator FX-82AU

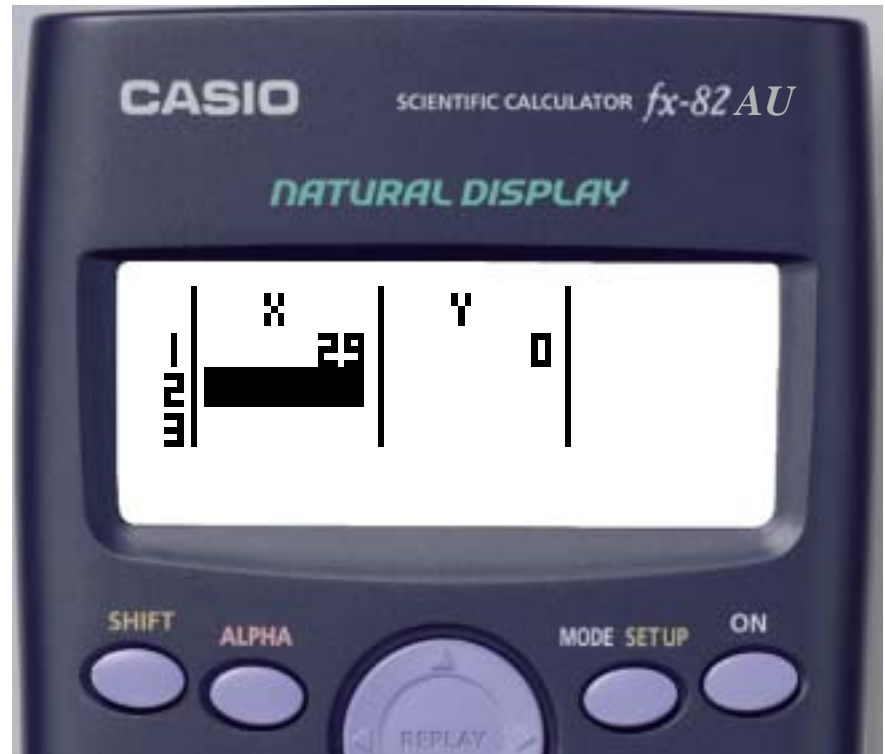
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
103	46.4
118	48.9

enter x value...



<< Next key sequence >>

6 0

Scientific Calculator FX-82AU

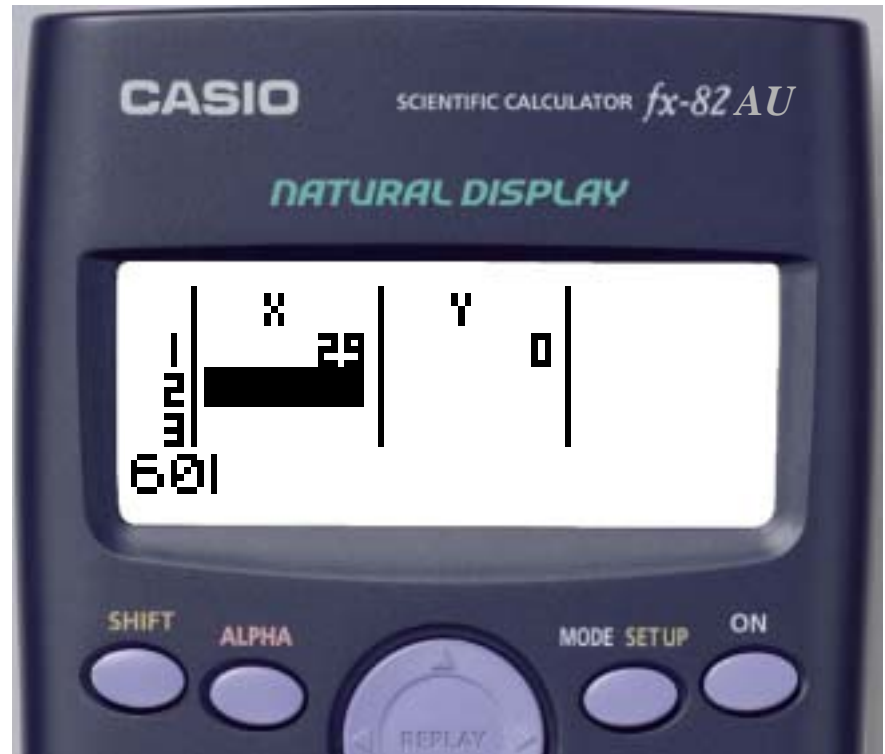
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
103	46.4
118	48.9

registering a value...



<< Next key sequence >>



Scientific Calculator FX-82AU

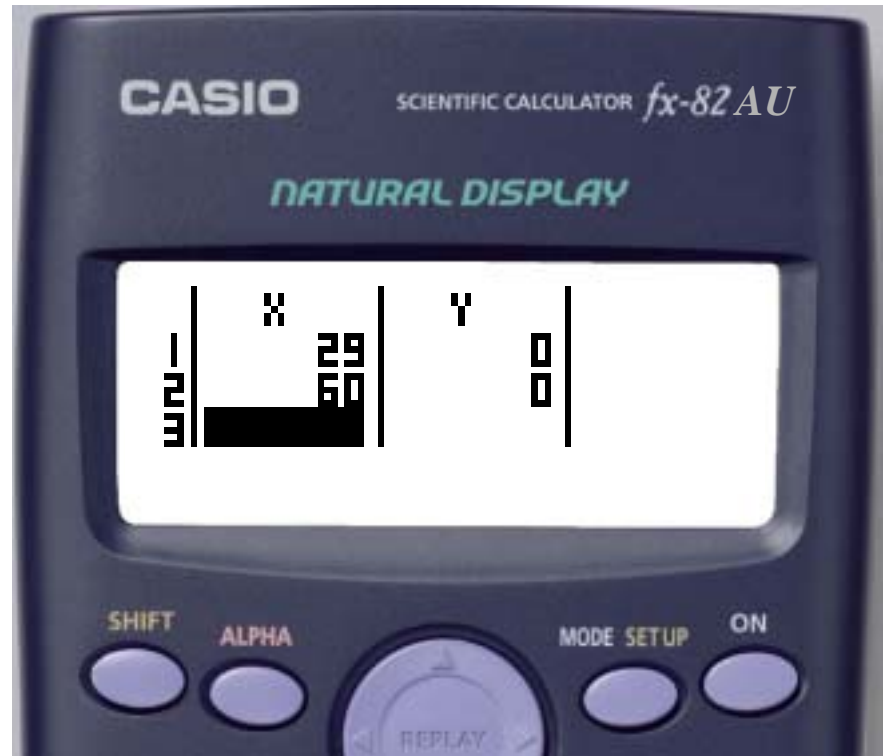
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
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enter x value and registration on the same manner.



<< Next key sequence >>

7 4 = 1 0 3 = 1 1 8 =

Scientific Calculator FX-82AU

Natural Textbook Display

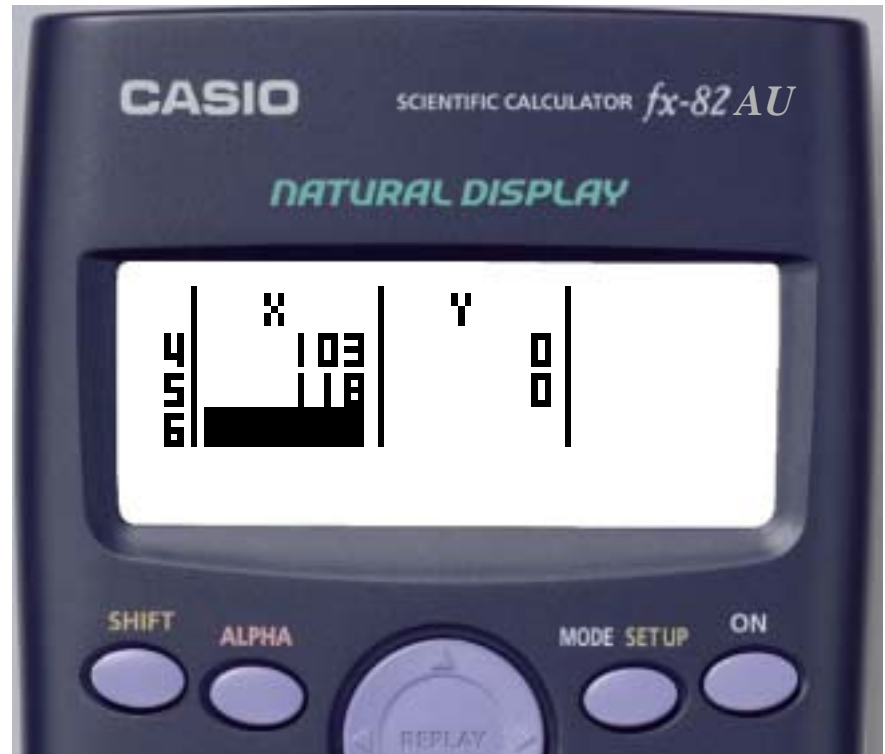
Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
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Next, enter y value.

Need to move cursor on Y data area.



<< Next key sequence >>



Scientific Calculator FX-82AU

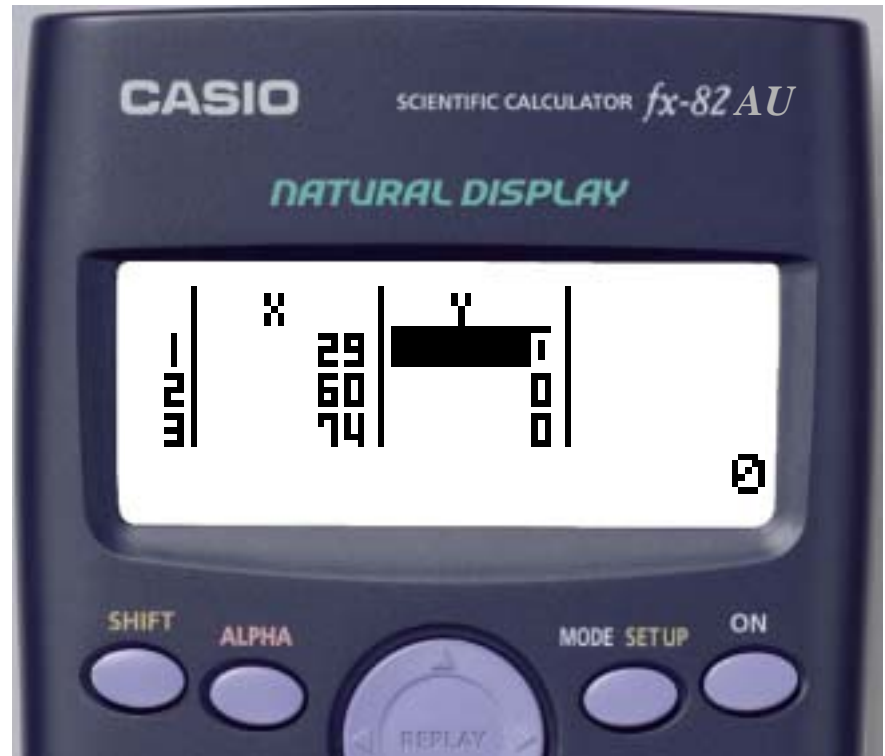
Natural Textbook Display

Example :5

Explore the following statistical data.

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29	1.6
60	23.5
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enter y value...



<< Next key sequence >>

1 **.** **6**

Scientific Calculator FX-82AU

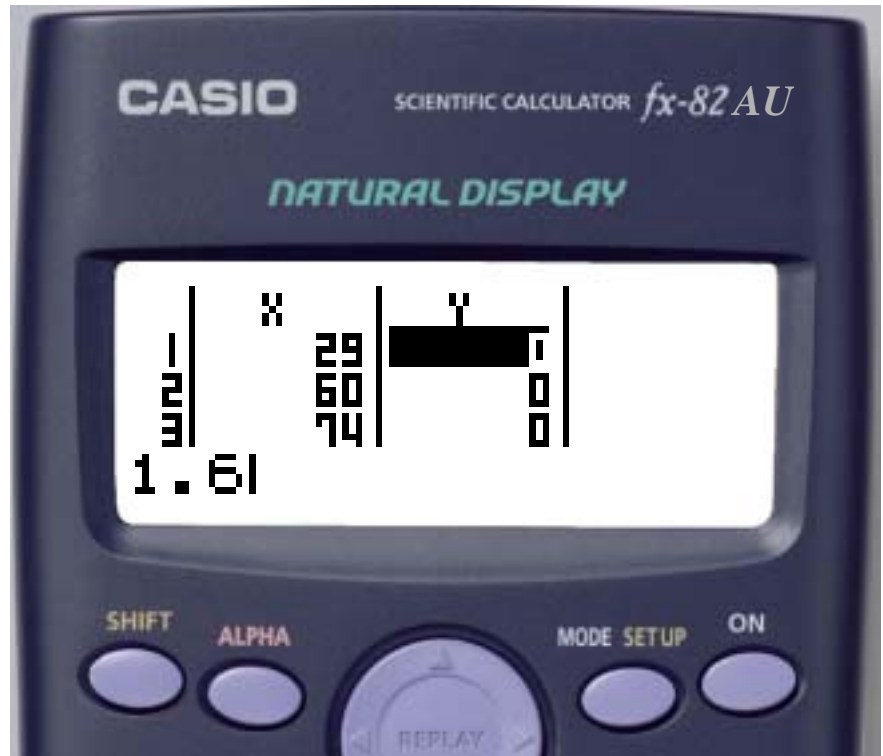
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
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103	46.4
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registering a value...



<< Next key sequence >>



Scientific Calculator FX-82AU

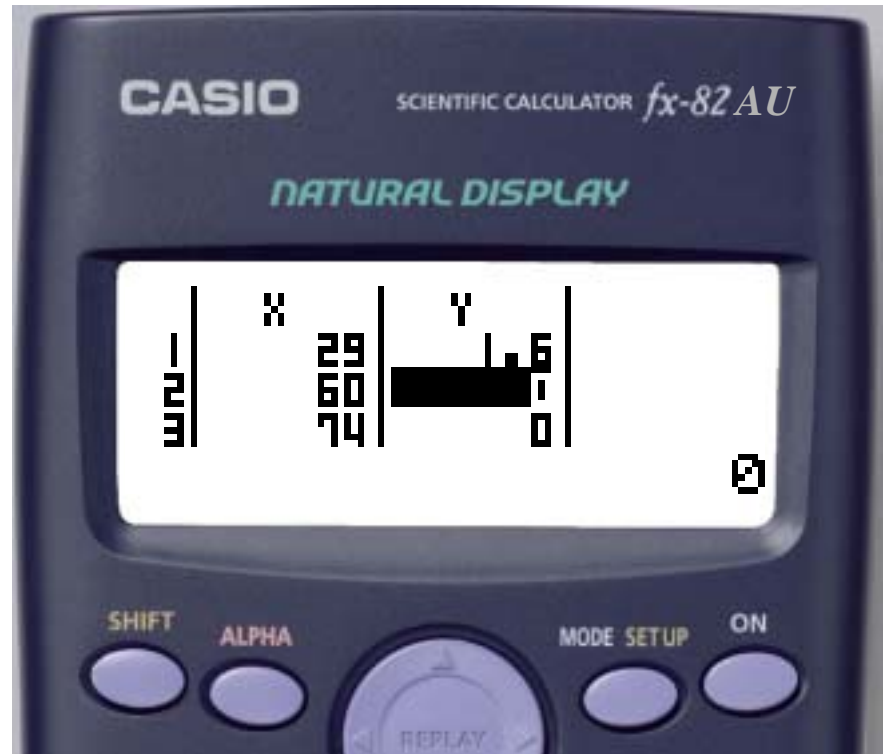
Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
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enter y value and registration on the same manner.



<< Next key sequence >>

2 3 . 5 = 3 8 = 4 6 . 4 =
4 8 . 9 =

Scientific Calculator FX-82AU

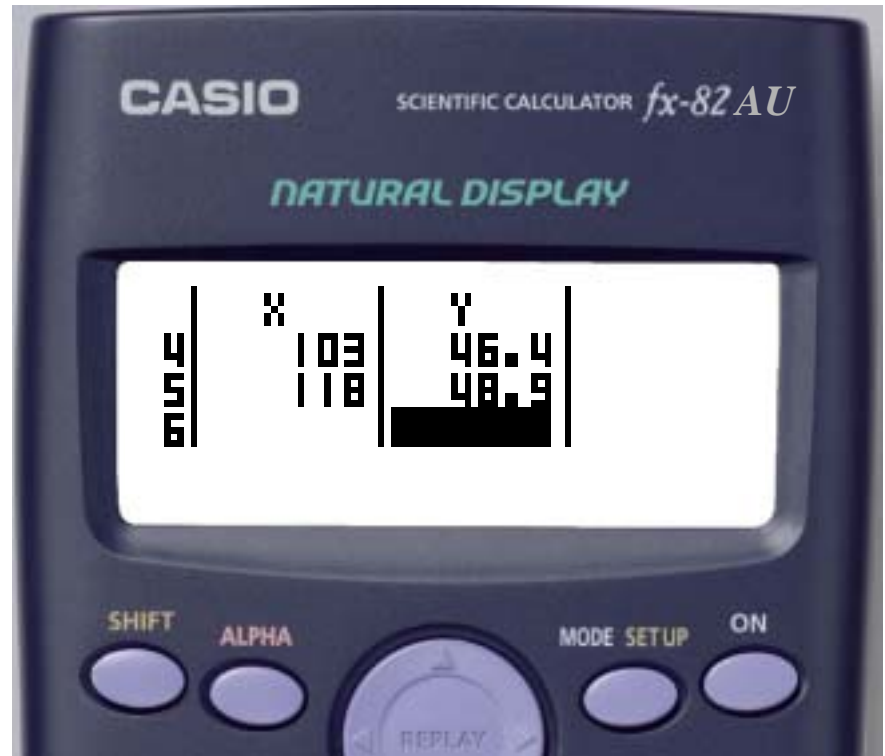
Natural Textbook Display

Example :5

Explore the following statistical data.

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103	46.4
118	48.9

CASIO's unique "Natural Data Input Display" performs "Easy Registration data" and "Easy Confirmation data"!



<< Next key sequence >>



Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

Explore the following statistical data.

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118	48.9

Of course, easy to explore regression model.

Open STAT menu.



<< Next key sequence >>

SHIFT **1** (STAT) **7** (Reg)

Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

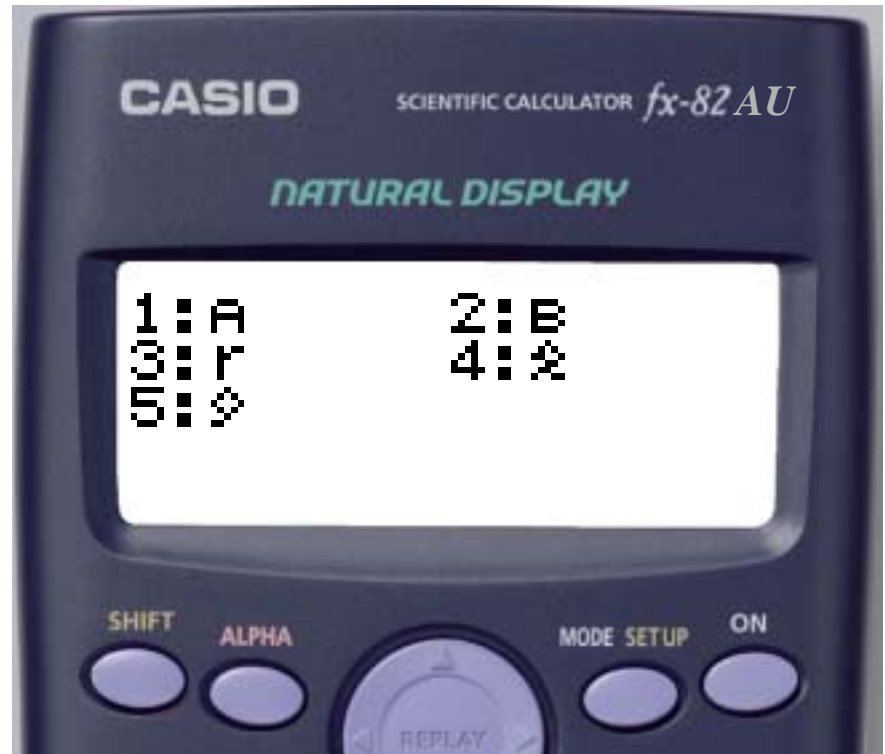
Explore the following statistical data.

x	y
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103	46.4
118	48.9

At first, Linear Regression model :

$$y = Ax + B$$

Calculate correlation r .



<< Next key sequence >>



Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

Explore the following statistical data.

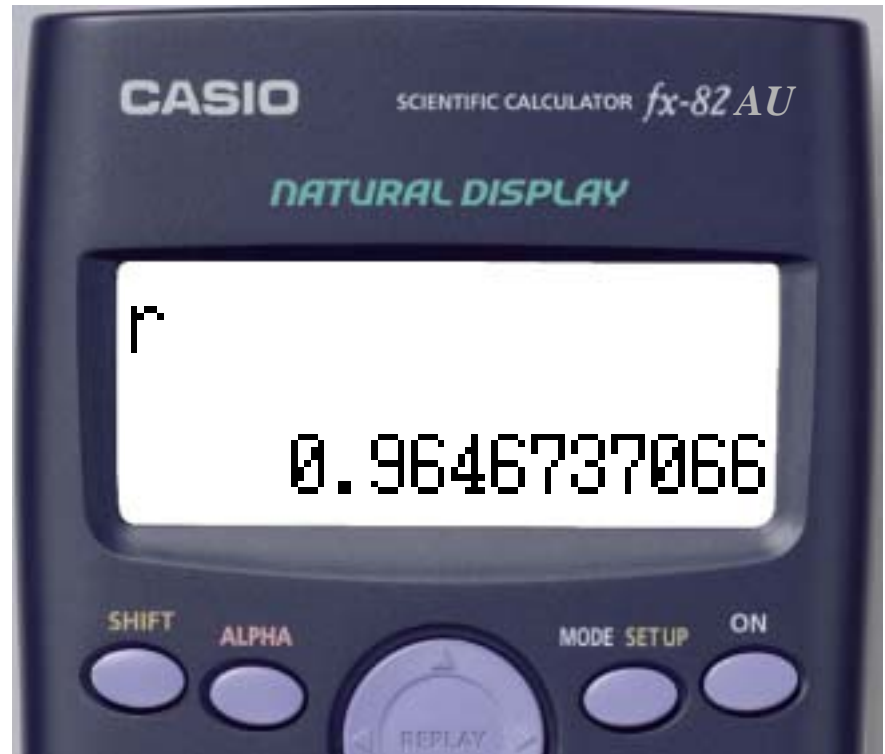
x	y
29	1.6
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74	38
103	46.4
118	48.9

$$r=0.9646737066$$

*Change regression model to
Logarithmic regression.*

<< Next key sequence >>

SHIFT **1** (STAT) **1** (Type) **4** (ln X)



Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

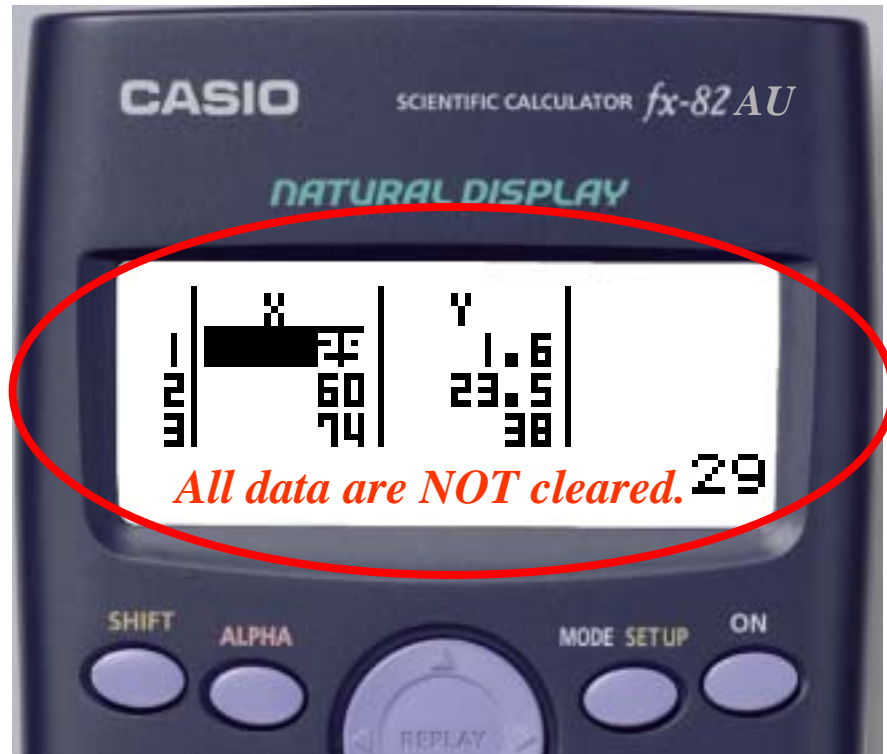
Explore the following statistical data.

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Logarithmic Regression model :

$$y=A+B*\ln(X)x$$

Calculate correlation r.



<< Next key sequence >>

AC **SHIFT** **1** (STAT) **7** (Reg) **3** **=**

Scientific Calculator FX-82AU

Natural Textbook Display

Example :5

Explore the following statistical data.

x	y
29	1.6
60	23.5
74	38
103	46.4
118	48.9

$r=0.9646737066$ (Linear model)

$r=0.9905156399$ (Logarithmic model)

Compare the said correlations, you can find Logarithmic model is good fit!

Easy to explore Statistics in Education!

