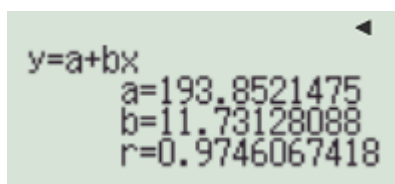


Correlation Coefficient using a Casio fx-83GT Calculator

Input the following data on fat grams and total calories in fast food

		Total Fat (g)	Total Calories
1	Hamburger	9	260
2	Cheeseburger	13	320
3	Quarter Pounder	21	420
4	Quarter Pounder with Cheese	30	530
5	Big Mac	31	560
6	Sandwich Special	31	550
7	Sandwich Special with Bacon	34	590
8	Crispy Chicken	25	500
9	Fish Fillet	28	560
10	Grilled Chicken	20	440
11	Grilled Chicken Light	5	300

1. Numbering each row of data (if this is not already done) could make it less likely to miss a row as data is input. The calculator has rows numbered so it's possible to cross check.
2. MENU, 2(Statistics), 2($y=a+bx$)
3. Input the data into columns x and y. (Press = after inputting each data item)
4. When they are all entered press OPTN
5. Choose 4(Regression Calc)



```
y=a+bx
a=193.8521475
b=11.73128088
r=0.9746067418
```

$r = 0.9746$

To find the equation of the line of best fit is not now on the syllabus but the values for a and b information are given by the calculator.

→ The equation of the line of best fit is: $y = 193.85 + 11.73x$