Stats: Product Moment Correlation Co-efficient Notes

Product Moment Correlation Co-efficient (PMCC), r, shows us the linear correlation of bivariate data. It gives a number between –1 and +1.

- **–1** is perfect **negative** correlation. The closer the PMCC is to –1, the better the negative correlation
- **+1** is perfect **positive** correlation. The closer the PMCC is to +1, the better the positive correlation
- **0** is perfect **zero** correlation. The closer the PMCC is to 0, the lower the correlation of the data

How to calculate PMCC

Casio fx-991EX Classwiz	Casio fx-CG50
1) Press MENU	1) Press MENU
2) Select 6:Statistics	2) Select 2 Statistics
3) Select 2:y=a+bx	3) Enter the data into the table
4) Enter the data into the table	4) Select CALC (F2)
5) Press AC	5) Select REG (F3)
6) Press OPTN	6) Select X (F1)
7) Select 3:Regression Calc	7) Select a + bx (F2)
8) Find the r-value	8) Find the r-value

E1: Find the product moment correlation co-efficient of these data:

x	2	3	4	5
y	16	18	19	25

The value of r is _____.

That is close to _____, so the scatter graph would show _____.

Your Notes