Stats: Product Moment Correlation Co-efficient Notes NEW

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 less correlated the data is

How to calculate PMCC

Casio fx-991CW Classwiz	Casio fx-CG50
1) Press HOME	1) Press MENU
2) Select Statistics	2) Select 2 Statistics
3) Select 2-Variable and Clear data if necessary	3) Enter the data into the table
4) Enter the data into the table	4) Select CALC (F2)
5) Press EXE	5) Select REG (F3)
6) Select Reg Results	6) Select X (F1)
7) Select y=a+bx	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