

Poisson distribution calculations in STAT Mode.

This resource was written by Derek Smith with the support of CASIO New Zealand. It may be freely distributed but remains the intellectual property of the author and CASIO.

Select STAT mode from the main menu by using the arrow keys to highlight the STAT icon or pressing 2.



Entry from MAIN MENU



F5 for BINomial Distribution



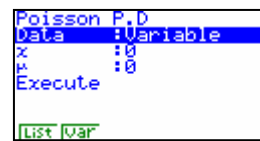
F6 then F1 for Poisson Probability Distribution



F1 for Poisson Probability Distribution

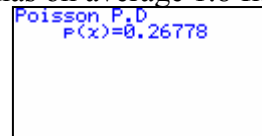
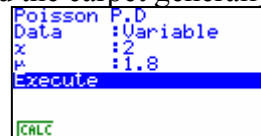


F1 for Change the data as being VARIABLE (you entry in the data) - press F2



Example:

Calculate the probability that from a carpet of size 1 square metre will have 2 flaws and the carpet generally has on average 1.8 flaws in it per square metre?



Answer: Probability = 0.26787 (4dp)

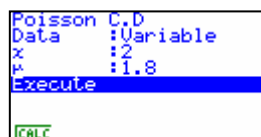
Example:

Calculate the probability that from a carpet of size 1 square metre will have at most 2 flaws and the carpet generally has on average 1.8 flaws in it per square metre?

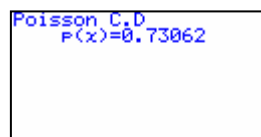
Here $x = 0, 1$ or 2



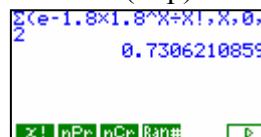
F2 for Poisson Cumulative Distribution



Answer: Probability = 0.7306 (4dp)



[Check in RUN MODE]



For further tips, more helpful information and software support visit our website www.monacocorp.co.nz/casio