

# Binomial 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.



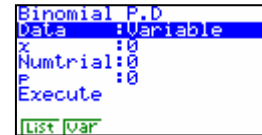
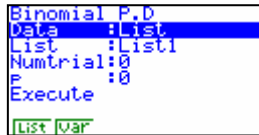
Entry from MAIN MENU



F5 for BINOmial Distribution

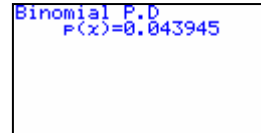
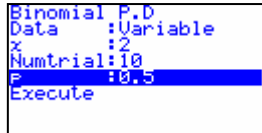


F1 for Bimomial Probability Distribution



Change the data as being **VAR**iable (you entry in the data) - press **F2**

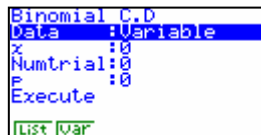
**Example 1:** Calculate the probability that from 10 trials there are two successful outcomes and the probability of a success is 0.5.



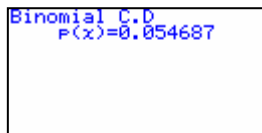
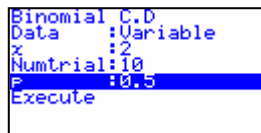
**Answer:** Probability = 0.0439 (4dp)

**Example 2:** Calculate the probability that from 10 trials there are at most two successful outcomes and the probability of a success is 0.5.

Here  $x = 0, 1$  or  $2$



F2 for Bimomial Probability Cumulative Distribution



**Answer:** Probability = 0.0547 (4dp) Check in **RUN MODE**.

