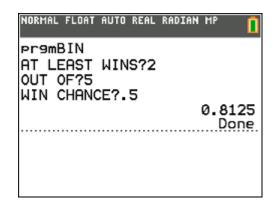
Binomial Addition Example



A coin is tossed 5 times. What is the chance you will have at least 2 heads? Answer: 81.25%

The program calculates the probability for each outcome and adds them to find the total probability.

Each win can be calculated by multiplying:

Combinations	Win Chance	Loss Chance	Probability
5 nCr 2	•5 ²	$(15)^{(5-2)}$	0.3125
5 nCr 3	•5 ³	$(15)^{(5-3)}$	0.3125
5 nCr 4	•5 ⁴	$(15)^{(5-4)}$	0.15625
5 nCr 5	•5 ⁵	$(15)^{(5-5)}$	0.03125
		Total	0.8125

Variables

- A Individual total for each probability in the loop
- B Running total of all probabilities
- W Chance of desired outcome occurring
- X Minimum number of desired outcomes
- Y Maximum outcomes
- Z Used to step through outcomes

Step-by-step

- 1) Input the minimum number of desired outcomes
- 2) Input the maximum number of outcomes

- 3) Input the chance of the desired outcome
- 4) Resets the running total to 0
- 5) Loop that steps through desired outcomes
- 6) Combination for specific outcome is stored as A
- 7) A is multiplied by the chance of desired outcome occurring and not occurring then stored as A
- 8) A is added to the running total B
- 9) End of loop from line 5
- 10) Display total B