

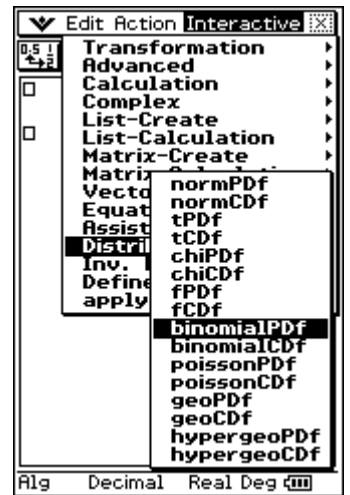
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083	Binomial Distribution Calculations	Author	Charlie Watson
		Date	31 January 2010
		CPM OS	03.04.4000

We will calculate binomial probabilities in the Main application.

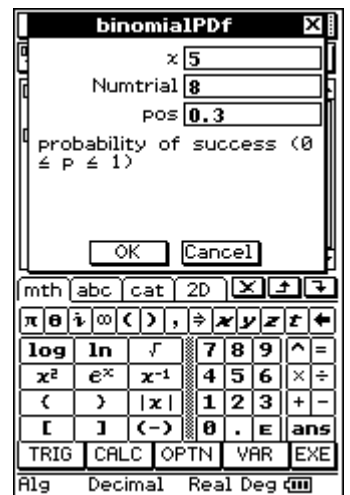
Assume we have an event that will be repeated 8 times with a probability of success of 0.3.

What is the $P(x = 5)$?

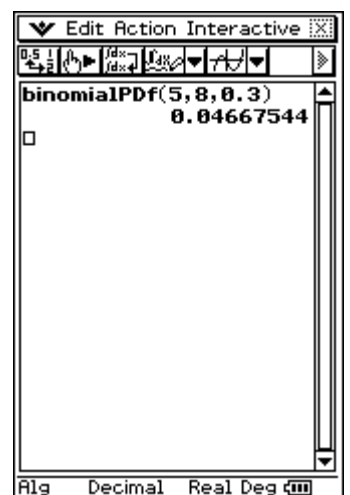
Tap **Interactive**, **Distribution**, **binomialPDF**.



Enter the three required values as shown and then tap **OK**.



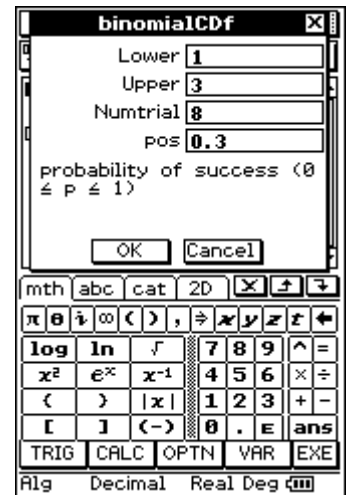
The probability of 5 successes in the 8 trials is about 0.047.



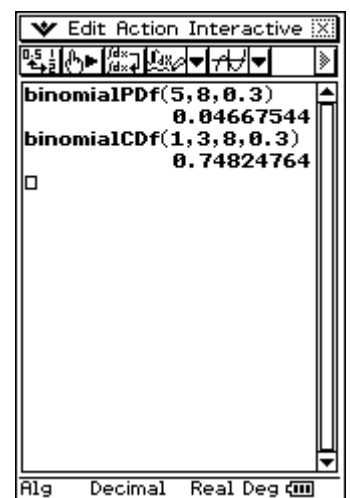
What is the $P(1 \leq x \leq 3)$?

Tap **Interactive, Distribution, binomialCDF**.

Enter the four required values as shown and then tap **OK**.



The probability of at least 1 and no more than 3 successes in the 8 trials is about 0.748.



Binomial probabilities can also be calculated in the Stats application. The method is explained in another help sheet. Please refer to the menu.