

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/Inv. Dist, Discrete, binomialPDF.**

Interactive

- Transformation
- Advanced
- Calculation
- Complex
- List
- Matrix
- Vector
- Equation/Inequality
- Assistant
- Distribution**
- binomialPDF**
- binomialCDF
- poissonPDF
- poissonCDF
- geoPDF
- geoCDF
- hypergeoPDF
- hypergeoCDF

Alg Decimal Real Deg

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

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

binomialPDF

x: 5
Numtrial: 8
pos: 0.3

probability of success ($0 \leq p \leq 1$)

OK Cancel

binomialPDF (5, 8, 0.3)
0.04667544

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

Tap **Interactive, Distribution/Inv. Dist, Discrete, binomialCDF.**

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

binomialCDF

Lower: 1
Upper: 3
Numtrial: 8
pos: 0.3

probability of success ($0 \leq p \leq 1$)

OK Cancel

binomialCDF (1, 3, 8, 0.3)
0.74824764

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.

binomialCDF(1, 3, 8, 0.3)
0.74824764