

For Assignment 1A

As usual our calculators make solving these problems extremely easy. The combination function is actually built into your calculator.

TI83/84: On home screen, type in the desired n , press Math, arrow to PRB, choose 3:nCr, ENTER, type k , ENTER.

TI89: From the home screen, press $2^{nd}5$ (Math), arrow to 7:Probability, right arrow for submenu, select 3:nCr, enter n,k , press ENTER

It gets even better than that, your calculator will figure out entire Binomial probability model problems.

TI83/84: *[pdf = probability distribution function]* *[cdf = cumulative distribution function]*

To find $P(X=k)$ for Binom(n,p): 2^{nd} , VARS (Distr.), arrow down to select 0:binompdf(n,p,k), ENTER

To find $P(X\leq k)$ for Binom(n,p): 2^{nd} , VARS (Distr.), arrow down to select A:binomcdf(n,p,k), ENTER

TI89: *[pdf = probability distribution function]* *[cdf = cumulative distribution function]*

To find $P(X=n)$ for Binom(n,p): From the Statistics List Editor, press F5 (Distr), arrow down to select B:Binomial Pdf(n,p,k), ENTER

To find $P(X\leq n)$ for Binom(n,p): From the Statistics List Editor, press F5 (Distr), arrow down to select C:Binomial Cdf(n,p , lower value 1, upper value n), ENTER

Yes your calculator can figure out Geometric probability models as well:

TI83/84: *[pdf = probability distribution function]* *[cdf = cumulative distribution function]*

To find $P(X=n)$ for Geom(p): 2^{nd} , VARS (Distr.), press the up arrow twice to select D:geometpdf(p,n), ENTER

To find $P(X\leq n)$ for Geom(p): 2^{nd} , VARS (Distr.), select E:geometcdf(p,n), ENTER

TI89: *[pdf = probability distribution function]* *[cdf = cumulative distribution function]*

To find $P(X=n)$ for Geom(p): From the Statistics List Editor, press F5 (Distr), press the up arrow twice to select F:Geometric Pdf(p,n), ENTER

To find $P(X\leq n)$ for Geom(p): From the Statistics List Editor, press F5 (Distr), select G:Geometric Cdf(p , lower value 1, upper value n), ENTER