

Chapter 11 / **Example 15**

Calculating cumulative binomial probabilities

Using example 14, find the probability that the courier delivers the package before 9.00 am at least five times during the week.

Assuming $X \sim B(7, 0.7)$

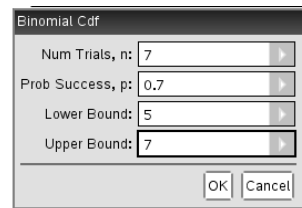
To find $P(X \geq 5)$

Open a new document and add a Calculator page.

Press **menu** 5:Probability | 5:Distributions | B:Binomial Cdf...

Enter 7 as the number of trials, 0.7 as the probability of success and 5 as the lower bound and 7 as the upper bound.

Press **enter** or click OK with the touchpad.



The GDC displays the solution $P(X \geq 5) = 0.647$.

