

M9X & M9Y - Advanced Placement Statistics - Chapter 7

Binomial Distribution

March 31, 2020

Dear Students,

Please carefully study section §7.5 of your textbook. In this section you are introduced to the concepts of *binomial distribution*, its *4 properties*, its *general formula* to calculate the probability of x successes $P(x) = \binom{n}{x}p^x(1-p)^{n-x}$, as well as, its *mean* and *standard deviation*, $\mu_x = np$ and $\sigma_x = \sqrt{np(1-p)}$ respectively.

Once you finish studying, proceed by answering the following problems: 7.44, 7.50, 7.52 (you do not need to use the tables in Appendix A, you can use your TI and the binomCdf command), and 7.54

As always, your work should be uploaded electronically and not turned in by email or on paper.

Mr. Demopoulos & Ms. Erayil