6.2 HW Advice

1-5: These problems are based on the definitions of: binomial formula, expected value, binomial experiment.

6-8: Compute binomial probabilities using the binomial calculator in StatCrunch.

Problems 9 & 10

For this problem you can construct the binomial distribution using StatCrunch in the same way as I did in Example 4 on Screen 2 of Objective 4 in the 6.2 IRA. For part (b) use the formulas as I did in Example 3 of Objective 3. For part c StatCrunch will already display the graph from part a, and the shape of the graph is covered on the previous screen.

11-12: Compute binomial probabilities.

13-14: Compute the mean $(\mu = np)$ and standard deviation $\left(\sigma = \sqrt{np(1-p)}\right)$, interpret the mean, and determine whether the given observation would be considered unusual. An observation is unusual when working with a binomial experiment if it is not between $\mu - 2\sigma$ and $\mu + 2\sigma$.

StatCrunch Alert

You should StatCrunch for all problems except for problems where you need to compute the mean & standard deviation of a binomial distribution.

Use the formulas $\mu = np$ and $\sigma = \sqrt{np(1-p)}$.

You will also need to use your calculator for finding the lower and upper fences for identifying unusual outcomes: $\mu - 2\sigma$ & $\mu + 2\sigma$.