Chapter 7: Sampling Distributions

(REQUIRED NOTES) *Section 7.2: Sample Proportions*

1) What is the difference between "p" and the sample proportion $\hat{p}$?

2) What is the purpose of the sample proportion ("phat") ?

3) In an SRS of size n, what is true about the sampling distribution of $\hat{p}$ when the sample size n increases?

4) In an SRS of size n:

   a. What is the mean of the sampling distribution of p ?

   b. What is the standard deviation of the sampling distribution of p ? **What condition must be checked?**

4) What happens to the standard deviation of p as the sample size n increases?

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5) When the sample size n is large, the sampling distribution of $\hat{p}$ is approximately Normal. What test can you use to determine if the sample is large enough to assume that the sampling distribution is approximately normal? **What condition must be checked?**

6) **CHECK YOUR UNDERSTANDING** (page 437) complete questions 1-4

    1)

    2)

    3)

    4)