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## **Chapter 7 Review**

A number that describes the whole population is known as a <u>parameter</u>.

A number that is calculated from a sample is known as a <u>statistic</u>. We always use a <u>Statistic</u> to estimate a <u>parameter</u>.

In Section 7-2, we used a <u>Sample proportion</u> to estimate a population proportion. In Section 7-3, we used a sample mean to estimate a population mean.

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Cummary.	Sample Proportions	Sample Means	
	Sample Proportions	1.1	
What is the parameter?	P	791	
What is the statistic?	$\varphi$	X	
	Sampling Dist.	Sampling Dist.	
Draw Sampling Distribution.	P	M M	
	Large counts np≥10	· If the population distribution is approx normal <u>STZ</u> · If the sample is later	
When is the sampling distribution approximately normal?	n (1-p)>10	. If the sample is late	ye, CL  ≥30)
What is the mean of the sampling distribution?	Mp = P	$\mathcal{M}_{\bar{X}} = \mathcal{M}$	
What is the standard deviation of the sampling distribution?	$O_{\widehat{P}} = P(1-P)$	$o^{\times} = o^{\times}$	
What condition must be satisfied norder to use the above formula?	10% condition	10% condition n & IoN	
/hat is the formula for a z-score?	$Z = \frac{\hat{\rho} - \rho}{\rho (1 - \rho)}$	Z = x-11	

Old stuff from Chapter 6: Binomial Distributions