Summary for Section 7.2

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| CLT for | C.I. = Confidence Interval | Sample size n |
| 1. Binomial Conditions are valid 2. n 3. Conditions 2 and 3 mean that your sample is big enough.   The CLT for says the sampling distribution for will be bell shaped with: | P = Best Estimate  Best Estimate = =  Error =  So P =  Example:  P = 0.3 0.1  Best Estimate = = 0.3  Error = 0.1  C.I. is P  C.I. is P [L , U] | You need a C.I. with high confidence (which means a specified level of confidence) and a small error (which means a specified E).  So the question boils down to:  How big the sample size should be to guarantee a high specified confidence and a small specified error.   1. If is known from prior studies, then:   n =   1. If is unknown then :   n =  when computing the sample size n, you always round up. |

