

Test 1: Chapters 1-5: p.3 #5 Stem & Leaf Plot,  $\bar{x}$  &  $s$  from calculator, and Five Number Summary  
 (Min,  $Q_1$ , Med,  $Q_3$ , Max)

Test 2: Chapters 6-11: p.4 #8bcd

Test 3: Chapters 12-14: p.1 #2, p.2 #3

Since test 3

Chapter 15 Sampling Distribution

proportions:  $\mu_{\hat{p}} = p$       $\sigma_{\hat{p}} = \sqrt{\frac{pq}{n}}$

$np + nq \geq 10$   
 10% Condition  
 Random + Indep.

Mean:  $\mu_{\bar{x}} = \mu$       $\sigma_{\bar{x}} = \frac{\sigma}{\sqrt{n}}$

10% Condition  
 Random + Indep.

Chapter 16: Confidence Intervals for Proportions

$\hat{p} \pm z^* \sqrt{\frac{\hat{p}\hat{q}}{n}}$      10% Cond.  
 $n\hat{p} \geq 10$  &  $n\hat{q} \geq 10$   
 Random + Indep.

Finding Sample Size

$n = \frac{z^{*2} p^* q^*}{ME^2}$  or  $n = \left(\frac{z^* \times 0.5}{ME}\right)^2$   
 ROUND UP!

Chapter 17: Significance testing for Proportion

$H_0$  &  $H_A$  ) Conditions, 10% Cond.  
 $n p_0 \geq 10$  &  $n q_0 \geq 10$   
 Random + Indep.

$z = \frac{\hat{p} - p_0}{\sqrt{\frac{p_0 q_0}{n}}}$  ) P-value, conclusions.

Chapter 18: Confidence Intervals for Mean:

$\bar{x} \pm t^* \frac{s}{\sqrt{n}}$      10% Cond.  
 Nearly Normal Cond.  
 Random + Indep.

Significance testing:  
 $H_0$  &  $H_A$  ) Conditions

$t = \frac{\bar{x} - \mu_0}{s/\sqrt{n}}$  ) P-value conclusions