

Test 1: Chapters 2-6: p.2 #4 Stem & Leaf Plot, \bar{x} & s from calculator, and Five Number Summary
 (Min, Q1, Med, Q3, Max)

Test 2: Chapters 7-13: p.4 #8bcd

Test 3: Chapters 14-17: p.1 #2, p.2 #3

Since test 3

Chapter 18 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 19: 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 20: Significance testing for Proportion

H_0 & H_A) Conditions, 10% Cond.
 $np_0 \geq 10$ & $nq_0 \geq 10$
 Random + Indep.

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

Chapter 23 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