**Unit 9 - Testing a Claim and Unit 10 Comparing Two Populations or Groups**

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| Date | Topic | Classwork alsi check out YOUTube for support  | Text book Assignment  |
| Thursday3/19 |   **9.1 Significance Tests: The Basics** |    [**9.1  Significance Tests: The Basics**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch9_9.1.ppt)**Video support****https://www.youtube.com/watch?v=kzLRa1Q\_OKY&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=35**Read pages 528-543 do guided readingWorkbook 167,168,169Textbook Problems Page 546 1-15 odd,19,21,25 |  Page 527-5451-15 odd, 19-25 odd |
| Friday3/20 | 9.2 Test about Proportions |   [**9.2  Tests about Population Proportion**](https://cobbk12.blackboard.com/webapps/blackboard/content/%E2%80%A2%20Check%20conditions%20for%20carrying%20out%20a%20test%20about%20a%20population%20proportion.)**Video support**[**https://www.youtube.com/watch?v=o0D\_YD6yw-A&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37&t=229s**](https://www.youtube.com/watch?v=o0D_YD6yw-A&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37&t=229s)[**https://www.youtube.com/watch?v=2vgLJXNzgzs&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=40**](https://www.youtube.com/watch?v=2vgLJXNzgzs&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=40)Read pages 549-561 do guided reading Workbook 171,172Textbook Problems page 563 27-30 all 41-55 Odd | page 561-56427-30,41-55 odd |
| Monday3/23 | **9.3 Tests about a Pop mean** | [**9.3  Tests about a Population Mean**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch9_9.3.ppt)**Video support**[**https://www.youtube.com/watch?v=BRAyZ1u\_AQQ&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37**](https://www.youtube.com/watch?v=BRAyZ1u_AQQ&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37)[**https://www.youtube.com/watch?v=BRAyZ1u\_AQQ&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37**](https://www.youtube.com/watch?v=BRAyZ1u_AQQ&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=37)[**https://www.youtube.com/watch?v=RouUNCdkqSc&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=39**](https://www.youtube.com/watch?v=RouUNCdkqSc&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=39)**Read pages 565-587 do guided reading****Workbook 174,175****Text book 588 57-60 all, 71-77 odd, 89, 94-97 all, 99-104 all** | page 587-59257-60,71-77 0dd,89,94-97,99-104 |
| Tuesday3/24 |  Review/Lab | Frappy, Mult. Choice workbook 176,177,178,180Textbook 594 R9.1-R9.9 |  Page 594 R9.1-R9.8 |
| Wednesday3/25 |  Quiz/Lab  | Textbook pate 597 T9.1-9.13 AP classroom Unit7 |  Guided Reading Ch. 9 duePage 597 Tp.1-9.10 |
| Thursday3/26 |  10.1 Comparing Two Proportions |   10.1 [**Comparing Two Proportions**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch10_10.1.ppt)**Video support****https://www.youtube.com/watch?v=TTVwk6vo\_q8&list=PL702WMQ5IPQUZLvABNsCZ2G7HUeNdRUho&index=41****Read pages 602-610****Workbook 187,****Textbook page 621 (1-9 odd)** | page -6201-13 odd |
| Friday3/27 |  10.1 Comparing Two Proportions | 10.1 day 2 [**Comparing Two Proportions**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch10_10.1.ppt)**Read pages 612-620****Workbook 188,189****Textbook pate 621 ( 11-23 odd0** | Page 611-62015-23 odd |
| Monday3/30 | 10.2 Comparing Two Means | **10.2  Comparing Two Means****Read pages 627-632**Workbook 191,Textbook pate 652 (29-32 all), 35,37,57 | page 652-66029-32,35-45 0dd |
| Tuesday3/31 |  10.2 Comparing Two Means |   **10.2  Comparing Two Means****Read pages 632-651**Workbook 192,193Textbook page 652 (39-45 odd) 51,53,59,65,67-70 all  | page 652-66051,53,59,65,67-70 |
| Wed4/1 |  Review/lab |  Review 9/10 Frappy Multiple choice WB 195,196,197,198,200Textbook page 661 R10.1-10.10 |  Textbook page 661 R10.1-10.10 |
| Thursday4/2 | Review | Review 9/10 A worksheet will be uploaded laterTextbook pate 664 T10.1-10,10.13 | Practice WsText page 664-666 T1-10.13  |
| Friday4/3 | TEST | Cumulative AP Practice Test 3Page 667 AP 3.1-AP 3.35  | TEST Guided Reading ch. 10 due |

**STANDARDS**

Statistical inference: Estimating population parameters and testing hypothesis

A.  Estimating (point estimators and confidence intervals)

1. Confidence interval for a difference between two means (paired and unpaired)

B. Tests of significance

1. Logic of significance testing, null and alternate hypothesis: p-values, one-and two-sided tests, concepts of Type I and Type II errors; concept of power
2. Large sample test for a proportion
3. Large sample test for a difference between two proportions
4. Test for a mean
5. Test for a difference between two means (unpaired and paired)
6. Chi-square test for goodness of fit, homogeneity of proportions, and independence (one- and two-way tables)
7. Test for the slop of a least squares regression line

**IMPORTANT DATES**

11/9 - Quiz 9.1 -9.2

11/12 - AP Statistics Practice Test 9

**QUICK NOTES**

[Chapter 9 - Testing a Claim Quick Notes](https://cobbk12.blackboard.com/bbcswebdav/pid-1327270-dt-content-rid-5609152_2/xid-5609152_2) 

**LESSONS**

**9.1 Significance Tests: The Basics**

* State correct hypotheses for significance test about a population proportion or mean.
* Interpret ***p***-values in context.
* Interpret a Type I error and a Type II error in context, and give the consequences of each.
* Understand the relationship between the significance level of a test, ***p***(Type II error), and power.

[**Keeper 9.1  Significance Tests: The Basics**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch9_9.1.ppt)

HW:  1, 3, 5, 7, 9, 11, 13, 15, 19, 21, 23, 25

**9.2 Tests about Population Proportion**

* Check conditions for carrying out a test about a population proportion.
* If conditions are met, conduct a significance test about a population proportion.
* Use a confidence interval to draw a conclusion for a two-sided test about a population proportion.

[**Keeper 9.2  Tests about Population Proportion**](https://cobbk12.blackboard.com/webapps/blackboard/content/%E2%80%A2%20Check%20conditions%20for%20carrying%20out%20a%20test%20about%20a%20population%20proportion.)

HW:  27-30, 41, 43, 45, 47, 49, 51, 53, 55

**9.3 Tests about a Population Mean**

* Check conditions for carrying out a test about a population mean.
* If conditions are met, conduct a one-sample ***t****-*test about a population mean .
* Use a confidence interval to draw a conclusion for a two-sided test about a population mean.
* Recognize paired data and use one-sample ***t***procedures to perform significance tests for such data.

[**Keeper 9.3  Tests about a Population Mean**](http://www.hopkins.k12.ky.us/webpages/vbrowning/files/tps4e_ch9_9.3.ppt)

HW:  57-60, 71, 73, 75, 77, 89, 94-97, 99-104