**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 |
| Thursday  3/19 | **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 reading  Workbook 167,168,169  Textbook Problems Page 546 1-15 odd,19,21,25 | Page 527-545  1-15 odd, 19-25 odd |
| Friday  3/20 | 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 171,172  Textbook Problems page 563 27-30 all 41-55 Odd | page 561-564  27-30,41-55 odd |
| Monday  3/23 | **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 587-592  57-60,71-77 0dd,89  ,94-97,99-104 |
| Tuesday  3/24 | Review/Lab | Frappy, Mult. Choice workbook 176,177,178,180  Textbook 594 R9.1-R9.9 | Page 594 R9.1-R9.8 |
| Wednesday  3/25 | Quiz/Lab | Textbook pate 597 T9.1-9.13    AP classroom Unit7 | Guided Reading Ch. 9 due  Page 597 Tp.1-9.10 |
| Thursday  3/26 | 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 -620  1-13 odd |
| Friday  3/27 | 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 611-620  15-23 odd |
| Monday  3/30 | 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 652-660  29-32,35-45 0dd |
| Tuesday  3/31 | 10.2 Comparing Two Means | **10.2  Comparing Two Means**  **Read pages 632-651**  Workbook 192,193  Textbook page 652 (39-45 odd) 51,53,59,65,67-70 all | page 652-660  51,53,59,65,67-70 |
| Wed  4/1 | Review/lab | Review 9/10  Frappy Multiple choice WB 195,196,197,198,200  Textbook page 661 R10.1-10.10 | Textbook page 661 R10.1-10.10 |
| Thursday  4/2 | Review | Review 9/10 A worksheet will be uploaded later  Textbook pate 664 T10.1-10,10.13 | Practice Ws  Text page 664-666 T1-10.13 |
| Friday  4/3 | TEST | Cumulative AP Practice Test 3  Page 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) [Click for more options](https://cobbk12.blackboard.com/webapps/blackboard/content/listContentEditable.jsp?content_id=_1326988_1&course_id=_17444_1#contextMenu)

**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