# ASSIGNMENT SHEET

Class A.P. Statistics Name _____

Quiz/Notebook Due Dates: Fri Dec 21, Thurs Jan 10, Wed Jan 16 Unit # 7 Period _____

Final Exam Date: Wed, Jan 23 Unit Title: Sampling Distributions

| Date Assigned | Lesson Number | MAIN IDEAS (Topics & Learning Targets) | In-class points (preparedness, WU, Notes, active learning) | ASSIGNMENT (Practice problems) | Assignment points (complete, work shown) |
|---|---|---|---|---|---|
| Mon 12/17 | 7.1a | **What is a Sampling Distribution?**<br>• Distinguish between a parameter and a statistic.<br>• Understand the definition of a sampling distribution.<br>• Distinguish between population distribution, sampling distribution, and the distribution of sample data.<br>• Determine whether a statistic is an unbiased estimator of a population parameter.<br>• Understand the relationship between sample size and the variability of an estimator. | | 7.1a #2, 4-5, 7, 21, 25 | |
| Tues 12/18 | 7.1b | | | 7.1b #9, 11, 13, 15, 22 | |
| Wed 12/19 | 7.1c | | **Shopping day**: see handout for notes! | 7.1c #17-19, 23-24, 26 | |
| Thurs 12/20 | Review | What am I good at this week?<br>What do I still need to work on? | **Delivery day**: see handout for notes! | Review R7.1-3 (p. 458)<br>T7.1-2, 8, 11 (p. 459)<br>+ write weekly summary! | |
| Fri 12/21 | Quiz 7.1 | Goal(s) for next week: | Weekly summary | No new homework over Break; catch up if needed! ☺ | |
| Mon 1/7 | 7.2a | **Sample Proportions**<br>• Find the mean and standard deviation of the sampling distribution of a sample proportion $\hat{p}$ for an SRS of size $n$ from a population having proportion $p$ of successes.<br>• Check whether the 10% and Normal conditions are met in a given setting.<br>• Use Normal approximation to calculate probabilities involving $\hat{p}$.<br>• Use the sampling distribution of $\hat{p}$ to evaluate a claim about a population proportion. | | 7.2a #27, 30-31, 33, 35, 37, 47 | |
| Tues 1/8 | 7.2b | | | 7.2b #39, 41, 43-46, 48 | |
| Wed 1/9 | Review | What am I good at this week?<br>What do I still need to work on? | | Review: R7.4-5 (p. 458)<br>T7.3, 5, 7, 13 (p. 459)<br>+ write weekly summary! | |
| Thurs 1/10 | Quiz 7.2 | Goal(s) for next week: | Weekly summary | Finish project proposal!! | Graded as a separate assignment |

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|---|---|---|---|---|---|
| Fri 1/11 | 7.3a | **Sample Means**<br>• Find the mean and standard deviation of the sampling distribution of a sample mean $\bar{x}$ from an SRS of size $n$.<br>• Calculate probabilities involving a sample mean $\bar{x}$ when the population distribution is Normal.<br>• Explain how the shape of the sampling distribution of $\bar{x}$ is related to the shape of the population distribution.<br>• Use the central limit theorem to help find probabilities involving a sample mean $\bar{x}$ . | | 7.3a #49, 51, 53-54, 56, 65-66, 69 | |
| Mon 1/14 | 7.3b | | | 7.3b #57, 60, 62-63, 67-68, 70-72 | |
| Sat 1/12 | **Saturday Academy!** | | • Saturday from 8-12 in the library (or 508 if enough people show up!)<br>• Free pancake breakfast!<br>• Time to prepare for the Final, get caught up on daily work or quiz corrections, and/or work on your project<br>• Mrs. Crum will be there to help you! | | |
| Tues 1/15 | Review | What am I good at in this chapter?<br><br>What do I still need to work on?<br><br>Goal(s) for next chapter: | | Review: R7.6-7 (p. 459)<br>T7.4, 6, 9-10, 12 (p. 460)<br>+ write weekly summary! | |
| Wed 1/16 | Quiz 7.2-3 | | Weekly summary | p. 461 AP2.1-7, 22, 24<br>+ Finish project poster!! | ~~Graded as a separate assignment~~ |
| Thurs 1/17 | Final Review | **Final Review**<br>• Chapter 1: Exploring Data<br>• Chapter 2: Modeling Distributions<br>• Chapter 3: Describing Relationships<br>• Chapter 4: Designing Studies<br>• Chapter 5: Probability<br>• Chapter 6: Random Variables<br>• Chapter 7: Sampling Distributions | Final Review WU | p. 462 AP2.8-14, 23 | |
| Fri 1/18 | Final Review | | | p. 463 AP2.15-21, 25 | |
| Tues 1/22 | Final Review | | | No new homework; organize weekly summaries, find old quizzes, study for Final!! | |
| Wed 1/23 | FINAL EXAM! | What am I good at in this <u>semester</u>?<br><br>What do I still need to work on?<br><br>Goal(s) for next <u>semester</u>: | Bonus points for having old quizzes:<br>1.1-2 1.2-3<br>2.1 2.2<br>3.1 3.2<br>4.1 4.2<br>5.1 5.2-3<br>6.1-2 6.3<br>7.1 7.2-3 | No new homework; take a break! ☺ | Bonus points for having weekly summaries:<br>1.1-2 1.2-3<br>2.1 2.2<br>3.1 3.2<br>4.1 4.2<br>5.1 5.2-3<br>6.1-2 6.3<br>7.1 7.2-3 |