**CHAPTER 7 – Sampling Distributions**

**Homework**

(glausermath.weebly.com)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3 (FEB.) Monday | 4 Tuesday | 5 Wednesday  *7.1a*  # 1, 3, 5, 7, 8  German Tank Activity | 6 Thursday  *7.1b*  # 9, 13, 17-19,  21, 22, 24  **POW #9 DUE** | 7 Friday  **No School** |
| 10  *7.2*  #27, 29, 35, 37, 41  **POW #10 assigned** | 11  *7.3a*  #49, 51, 53, 55  **Test 6 Corrections Due** | 12  *7.3b*  #57, 59, 61, 63, 65-68 | 13  *Review Ch. 7* | 14 Valentine’s Day  **CH. 7 TEST**  **POW #10 DUE** |

**Chapter Objectives**

7.1: What Is a Sampling Distribution?

* Distinguish between a **parameter** and a **statistic**
* Understand **bias** and **variability** (larger samples = less variability)
* Define **sampling distribution**
* Distinguish between population distribution, sampling distribution,

and the distribution of sample data

7.2: Sample Proportions

* Describe a sampling distribution (mean, st. dev.) of a **sample proportion**
* Check the conditions to know when to use the normal approximation
* Use the normal approximation to calculate probabilities involving****

7.3: Sample Means

* Describe a sampling distribution (mean, st. dev.) of a **sample mean**



* Explain how the shape of the sampling distribution of is related to the

shape of the population distribution



* Understand and use the **central limit theorem** (CLT)

to solve probability problems