**CHAPTER 6 – Random Variables**

**Homework**

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| 27 (JAN.) Monday*6.1b / 6.2a* # 19, 23, 25, 29, 37, 41**POW #8 assigned** | 28 Tuesday*6.2b* # 47, 49, 51, 59, 63(worksheet)**Test 5 Corrections Due** | 29 Wednesday*6.3a* # 61, 65, 66, 69, 71, 73, 75, 77 | 30 Thursday*6.3b* # 79-89 odd | 31 Friday*6.3c* # 95, 97, 99, 101-103**POW #8 DUE** |
| 3 (FEB.)*Review Ch. 6***POW #9 assigned** | 4**CH. 6 TEST**  | 5*7.1a* | 6*7.1b***POW #9 DUE** | 7**No School** |

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**Chapter Objectives**

* Construct a **probability distribution** table and histogram
* Answer probability questions about values of a **discrete random variable**
* Calculate the mean (**expected value**) and standard deviation of a discrete

random variable

* Understand **continuous random variables** and determine probabilities

of events as areas under density curves.

* Describe the effects of transforming a random variable by +, −, ×, ÷ by a constant
* Use the rules for means and variances to solve problems involving sums, differences, and linear combinations of random variables
* Given a Normal random variable, find probabilities of events as areas under the standard normal curve
* Determine whether a random variable is binomial or geometric using the 4 conditions for each
* Calculate **binomial probabilities**
* Calculate the mean and standard deviation of a binomial random variable
* Calculate **geometric probabilities**