

## 2023-2024 AP Statistics Assignments

(see web site for reading guides, glossaries of important terms, notes, HW answers, and other goodies)

**Note: The Midterm will cover Chapters 1-6                      The Chapter 6 Test will be combined with Chapter 7 and will be after Midterms.**

#	Day	Topics	Objectives: Students will be able to...	Req'd HW	Req'd Reading & SM Videos	IP: review book problems and takes notes (Not graded)	4B
6	0	<b><u>Chapter 6 Introduction.</u></b> 6.1 Discrete random Variables, Mean (Expected Value) of a Discrete Random Variable	<ul style="list-style-type: none"> <li>Use a probability distribution to answer questions about possible values of a random variable(RV).</li> <li>Calculate the mean of a discrete RV.</li> <li>Interpret the mean of a RV in context.</li> </ul>	<b>Complete 6.1 Guided Notes</b>	<b>Section 6.1</b>		15-Dec
<b>No School - Power Outage - Dec19</b>							
<b>6.1&amp;6.2 FRAPPY'S (2001q2, 2002q3, 2008bq5) due week after break - 3HW grades - must grade &amp; correct                      (Tip: Start early and pace yourself.)</b>							
6	1	<b>6.1 Standard Deviation (and Variance)</b> Discrete RV's, Continuous RV's  <u>ACTIVITY: 6.1</u> includes Technology: Analyzing RV's on the Calculator (page 348)	<ul style="list-style-type: none"> <li>Calculate the standard deviation of a discrete RV.</li> <li>Interpret the standard deviation of a RV in context.</li> </ul>	Complete 6.1 WS  6.1 SM Video 6.2(continous) SM V	<b>Section 6.2</b>	<del>1, 2, 5, 7, 9,</del> 11, 15, <del>19, 23,</del> 24	21-Dec
<b>Holiday Break DEC22-JAN2</b>							
6	2	<b>6.2 Transforming Random Variables</b> <u>ACTIVITY: 6.2A Transforming RV's</u> includes HW Problem #48	<ul style="list-style-type: none"> <li>Describe the effects of transforming a RV by adding or subtracting a constant and multiplying or dividing by a constant.</li> </ul>	Complete 6.2a WS 6.2(transform) SM V 6.2(combine) SM V		25, 37, 41, 45, 49, 50, 51	Jan3(ER)
6	3	<b>6.2 Combining Random Variables,</b> Combining Normal Random Variables  <u>ACTIVITY: 6.2B Combining RV's</u>	<ul style="list-style-type: none"> <li>Find the mean and standard deviation of the sum or difference of independent RVs.</li> <li>Determine whether 2 RVs are independent.</li> <li>Find probabilities involving the sum or difference of independent Normal RVs.</li> </ul>	Complete 6.2b WS  6.3 Day1 SM V  6.1-6.2 FRAPPY'S due next class	<b>Section 6.3</b>  6.3 Guided Notes (recommended but not graded)	43, 57 (refer to #14), 64	5-Jan

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#	Day	Topics	Objectives: Students will be able to...	Req'd HW	Req'd Reading & SM Videos	IP: review book problems and takes notes (Not graded)	4B
<b>6.3 FRAPPY's (2008Bq5, 2010q4, 2011Bq3, 2003q3) will be on covered on the midterm due 1st Class in Quarter 3</b> 3HW grades - must grade & correct (Tip: Start early ans pace yourself.)							day of Chapter 6 REVIEW-
6	4	6.3 Introduction to Binomial Random Variables  <del>ACTIVITY 6.3: Graphing Binomial Activity</del>	Introduction to Binomial RV. • Determine conditions for a binomial RV are met.	Complete 6.3B2 WS		69-72	9-Jan
		6.3 Binomial Settings and Binomial Random Variables, Binomial Probabilities, ACTIVITY: 6.3B2 Understanding Binomial RV's	• Compute and interpret probabilities involving binomial distributions. • Calculate the mean and standard deviation of a binomial RV. Interpret these values in context.	6.3 Day 2 SMV		75, 76, 78, 80, 81, 83	
		6.3 Mean & StDev. of a Bin. Distrib., Binomial Distrib. in Statistical Sampling INTERGRATE THESE 3 ACTIVITIES: ACTIVITY: 6.3C "Do You Like Green Slittles" from StatMedic ACTIVITY: 6.3C Understanding Sampling ACTIVITY: 6.3N Normal vs. Binomial	• Determine when sampling without replavement is appropriate (10% condition) • Determine the condition to use the normal model to approximate a binomial model. Calculate the mean and standard deviation. Interpret these values in context.	Complete 6.3C and 6.3N ws (not graded)  6.3 Day 3 SMV		85, 87, 88, 91, 92	
6	7	6.3 Geometric Random Variables ACTIVITY: 6.3G2: Geometric RV's (updates 2020) (td) ACTIVITY 6.3G: Graphing Geometric Activity	* Determine conditions for a geometric RV are met. * Find probabilities involving geometric RVs.	Complete 6.3G2 WS (not graded)  6.3G1 SMV (Hand in Q3)	Remember 6.3 FRAPPY's due 1st Q3 CLASS	93, 94, 95, 96, 97, 99	11-Jan
<b>MIDTERM (Week of Jan15): Chapters 1-6</b>							
<b>3 Free Response-50% and 33 multiple choice-50%</b>							
<b>Format:</b> <a href="http://www.brunswick.k12.me.us/pgroves/files/2013/01/2016-AP-Statistics-Midterm-Format.pdf">http://www.brunswick.k12.me.us/pgroves/files/2013/01/2016-AP-Statistics-Midterm-Format.pdf</a>							
<b>Study Tips:</b> <a href="http://www.brunswick.k12.me.us/pgroves/home/ap-statistics/882-2/">www.brunswick.k12.me.us/pgroves/home/ap-statistics/882-2/</a>							
<b>SNOWDAY: JAN _____</b>							