

Dear AP Statistics Student,

Welcome to the beginning of your study of statistics. I look forward to working with you over the course of the next year and preparing you for the AP Statistics test in May. The following assignment contains course material that you will need to study and understand. We will be covering a lot of material throughout the school year and this is just a glimpse of what is to come. These foundational skills are essential in the study of statistics. Some of the material is review and other parts contain new concepts and terminology. You will need to know all of this information extremely well. Since there is so much material to cover throughout the school year this assignment will help you get a head start which will hopefully save us some time so we will have more time to review before the AP test.

As with other math courses a graphing calculator is required. If you do not currently have one I would suggest that you purchase a TI-Nspire graphing calculator as they will be used in this class and are needed for the AP test. If you're planning on checking one out from the library this school year, there are free ti-84 apps (Android: wabbitemu & Apple: Calculate84) to download for the summer.




Start this summer assignment early to allow for time to receive clarification (if necessary) to complete. Once again I look forward to working with all of you. I hope you all have a safe and happy summer and I will see you in August.

Mr. Guenther  
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### **Assignment:**

- This assignment is for a quiz grade and is due the first week of school. Start the school year off strong with an A! You will be graded on both accuracy and completion. You may redo the Khan Academy assignments before the due date as often as you like. **Your minimum grade for each assignment should be a 70.**
- Sign Up For Khan Academy.
  - Please sign up for our Khan Academy class. We will use this site for remedial multiple-choice review.
  - To register, click the following link: <https://www.khanacademy.org/join/MT5H6CU9>
- If you need help, these topics are all found in the first three chapters of the text. I recommend reading the textbook and taking notes on what you read. The book is excellent.
  - Click the following link for the textbook: [LINK](#)
- You can also watch the videos in Khan Academy. Each question has a linked “help video” as well as a “hint” feature.
- There are 27 separate assignments for you to complete at Khan Academy.
  - Each assignment is approximately 4 multiple choice questions. Remember you may redo the assignments as many times as you like.
- These are remedial concepts that I expect you to understand when you come to school in August. Be ready for an exam during the first 1½ - 2 weeks of school.

RUBRIC:

Summer Khan Academy   				
Criteria	Ratings			Pts
<b>Completion</b> Completed all 24 practice assignments with at least a 70	<b>20 pts</b> <b>Full Marks</b>	<b>10 pts</b> <b>Incomplete</b>	<b>0 pts</b> <b>No Marks</b>	20 pts
<b>Exploring categorical data: Unit test</b> Accuracy Grade	<b>10 pts</b> <b>Full Marks</b>	<b>0 pts</b> <b>No Marks</b>		10 pts
<b>Exploring one-variable quantitative data: Displaying and describing: Unit test</b> Accuracy Grade	<b>10 pts</b> <b>Full Marks</b>	<b>0 pts</b> <b>No Marks</b>		10 pts
<b>Exploring one-variable quantitative data: Summary statistics: Unit test</b> Accuracy Grade	<b>10 pts</b> <b>Full Marks</b>	<b>0 pts</b> <b>No Marks</b>		10 pts
				<b>Total Points: 50</b>

# Khan Academy Summer Assignment

Exploring categorical data	Exploring one-variable quantitative data: Displaying and describing	Exploring one-variable quantitative data: Summary statistics
<p><b>Individuals, variables, and categorical data</b> Exercise • Different question set</p>	<p><b>Reading dot plots &amp; frequency tables</b> Exercise • Different question set</p>	<p><b>Calculating mean and median from a distribution</b> Exercise • Different question set</p>
<p><b>Read bar graphs</b> Exercise • Different question set</p>	<p><b>Create histograms</b> Exercise • Different question set</p>	<p><b>Estimating mean and median in data</b> Exercise • Different question set</p>
<p><b>Read two-way frequency tables</b> Exercise • Different question set</p>	<p><b>Read histograms</b> Exercise • Different question set</p>	<p><b>Interquartile range (IQR)</b> Exercise • Different question set</p>
<p><b>Create two-way frequency tables</b> Exercise • Different question set</p>	<p><b>Reading stem and leaf plots</b> Exercise • Different question set</p>	<p><b>Sample standard deviation</b> Exercise • Different question set</p>
<p><b>Analyze two-way frequency tables</b> Exercise • Different question set</p>	<p><b>Shape of distributions</b> Exercise • Different question set</p>	<p><b>Visually assess standard deviation</b> Exercise • Different question set</p>
<p><b>Interpret two-way tables</b> Exercise • Different question set</p>	<p><b>Describing distributions</b> Exercise • Different question set</p>	<p><b>Reading box plots</b> Exercise • Different question set</p>
<p><b>Mosaic plots</b> Exercise • Different question set</p>	<p><b>Comparing distributions</b> Exercise • Different question set</p>	<p><b>Interpreting quartiles</b> Exercise • Different question set</p>
<p><b>Marginal distributions</b> Exercise • Different question set</p>	<p><b>Exploring one-variable quantitative data</b> Unit Test</p>	<p><b>Identifying outliers</b> Exercise • Different question set</p>
<p><b>Conditional distributions</b> Exercise • Different question set</p>		<p><b>Exploring one-variable quantitative data</b> Unit Test</p>
<p><b>Exploring categorical data: Unit test</b> Unit Test</p>		