

 Lagunita is retiring and will shut down at 12 noon Pacific Time on March 31, 2020. A few courses may be open for self-enrollment for a limited time. We will continue to offer courses on other online learning platforms; visit <http://online.stanford.edu>.

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Introduction to Statistics Package Exercises

Purpose of Statistics Package Exercises


The Probability & Statistics course focuses on the processes you use to convert data into useful information. This involves

- Collecting data,
- Summarizing data, and
- Interpreting data.

In addition to being able to apply these processes, you can learn how to use statistical software packages to help manage, summarize, and interpret data. The statistics package exercises included throughout the course provide you the opportunity to explore a dataset and answer questions based on the output using R, Statcrunch, TI Calculator, Minitab, or Excel. In each exercise, you can choose to view instructions for completing the activity in R, Statcrunch, TI Calculator, Minitab, or Excel, depending on which statistics package you choose to use.

The statistics package exercises are an extension of activities already embedded in the course and require you to use a statistics package to generate output and answer a different set of questions.

To Download R

To download R, a free software environment for statistical computing and graphics, go to: <https://www.r-project.org/>  and follow the instructions provided.

Using R

Throughout the statistics package exercises, you will be given commands to execute in R. You can use the following steps to avoid having to type all of these commands in by hand:


1. Highlight the command with your mouse.
2. On the browser menu, click "Edit," then "Copy."
3. Click on the R command window, then at the top of the R window, click "Edit," then "Paste."
4. You may have to press <Enter> to execute the command.

R Version

The R instructions are current through **version 3.2.5 released on April 14, 2016**. **Instructions in these statistics package exercises may not work with newer releases of R.**

For help with installing R for MAC OS X or Windows click here

Accessing StatCrunch

StatCrunch requires that your institution purchase access for you or, if directed by your instructor, for you to purchase a 6 or 12 month license to access to the software. **Please work with your instructor to determine if you need access to StatCrunch.** More information on accessing this software can be found here: <https://www.statcrunch.com/get-access/> .


Using StatCrunch

Throughout the statistics package exercises, you will be given directions for how to use the pull-down menus or commands in StatCrunch.

StatCrunch Version

The StatCrunch instructions are current through the **May/June 2015 updates**. **Instructions in these statistics package exercises may not work with newer versions of StatCrunch.**

Accessing TI Calculator

To use the TI Calculator your institution must purchase for you or, if directed by your instructor, for you to purchase a Texas Instruments graphing calculator. **Please work with your instructor to determine if you need access to a TI Calculator.** More information on these calculators can be found here: <https://education.ti.com/en/us/products#product=graphing-calculators> .


Using the TI Calculator

Throughout the statistics package exercises, you will be given directions on what commands to enter into the TI Calculator.

TI Calculator Version

The TI Calculator instructions are current for the **TI-84 Plus Silver Edition graphing calculator**. **Instructions in these statistics package exercises may not work with newer versions of the TI Calculator.**

Accessing Minitab

Minitab requires that your institution purchase access for you or, if directed by your instructor, for you to purchase a 6 or 12 month license to access to the software to access to the software. **Please work with your instructor to determine if you need access to Minitab.** More information on accessing this software can be found here: <https://www.minitab.com/en-us/> .


Using Minitab

Throughout the statistics package exercises, you will be given directions for how to use the commands in Minitab.

Minitab Version

The Minitab instructions are current through **version 16**. **Instructions in these statistics package exercises may not work with newer versions of Minitab.**

Accessing Excel

Microsoft Excel requires that your institution purchase access for you or, if directed by your instructor, for you to purchase a copy of the software. **Please work with your instructor to determine if you need access to Excel.** More information on accessing this software can be found here: <https://products.office.com/en-us/excel> .

Excel is available for Windows only.

Note that in addition to the standard installation, the Analysis ToolPak must also be installed. To install the Analysis ToolPak, first install Excel and then follow these instructions (for Excel 2007):

- Click the **Microsoft Office Button** (the round button at the top left of the Excel application), and then click **Excel Options**.
- Click on **Add-Ins** on the left and then next to **Manage**, select **Excel Add-ins**. Click **Go**.
- Next, check the box next to **Analysis ToolPak** and click **OK**.
- Click **Yes** to run the installer (note: Excel may ask you to insert your Office CD to complete the installation).

Using Excel

Throughout the statistics package exercises, you will be given directions for how to use the commands in Excel.

Excel Version

The Excel instructions are current through **Excel 2013 and Excel 2016. Instructions in these statistics package exercises may not work with newer versions of Excel.**



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