

# Math 113 - Homework Exercises

#	Topic	Ch	Due Date	Score
1	Descriptive and Inferential Statistics	1	Wed, Jun 3	_____
2	Levels of Measurement	2	Wed, Jun 3	_____
3	Interpreting Graphs	3	Thu, Jun 4	_____
4	Finding Descriptive Statistics	4	Mon, Jun 8	_____
5	Manipulating the Data	5	Tue, Jun 9	_____
6	Probabilities from Contingency Tables	6	Thu, Jun 11	_____
7	Probabilities of Compound Events	7	Mon, Jun 15	_____
8	Counting and Probability Distributions	8	Wed, Jun 17	_____
9	Binomial Probabilities	9	Thu, Jun 18	_____
10	Standard Normal Probabilities	10	Thu, Jun 18	_____
11	Non-Standard Normal Probabilities	11	Mon, Jun 22	_____
12	Types of Sampling	12	Wed, Jun 24	_____
13	Sampling Distributions	13	Thu, Jun 25	_____
14	Confidence Interval for One Mean	14	Thu, Jun 25	_____
15	Confidence Interval for One Proportion	14	Mon, Jun 29	_____
16	Introduction to Hypothesis Testing	15	Tue, Jun 30	_____
17	Testing One Mean	16	Wed, Jul 1	_____
18	Testing One Proportion	16	Thu, Jul 2	_____
19	Testing Two Means	17	Mon, Jul 6	_____
20	Testing Two Proportions	17	Mon, Jul 6	_____
21	Determining the Appropriate Basic Test		Mon, Jul 6	_____
22	Chi-Square Goodness of Fit	18	Wed, Jul 8	_____
23	Chi-Square Test for Independence	18	Thu, Jul 9	_____
24	One-Way Analysis of Variance	19	Mon, Jul 13	_____
25	Two-Way Analysis of Variance		Tue, Jul 14	_____
26	Correlation	20	Wed, Jul 15	_____
27	Simple Regression	20	Thu, Jul 16	_____
28	Regression and ANOVA	20	Mon, Jul 20	_____
29	Multiple Regression		Tue, Jul 21	_____
30	Determining the Appropriate Advanced Test		Tue, Jul 21	_____

# Math 113 - Homework Exercises

Homework from the textbook is not assigned or collected in this course. Instead of assigning problems from the book, I have created some problems that will be answered on the computer and submitted for a grade. You will need your calculator while working these problems but you do not need Minitab.

Click on the **Homework Exercises** link from the homepage to get to the homework.

There is at least one homework assignment for each chapter and some chapters have more than one assignment. Where appropriate, the chapter from your textbook is indicated in parentheses after the homework title. This is so that you can know where to read in your book for additional help.

Random data is used to generate the problems and so each homework assignment is slightly different, but the concepts and difficulty levels are the same for each set of problems. Real data has been used when possible.

It is very important that you carefully read all of the material on the page.

Be careful when you are typing your answers. The default behavior for browsers is to submit a form if you press *enter*. If you intend to move to the next question, you should use the tab key or mouse. Do not click enter unless you have answered everything you want to answer on the page.

If a question has a numeric answer, you will be told how many decimal places you need to give in your answer. This usually appears in parentheses after the answer box, but sometimes it is in the instructions. This is the minimum number of decimal places, you may give more. Many answers depend on previous answers but the intermediate steps are not rounded. That means that even though you may only need 2 decimals in the answer, you probably do your calculations with 4 or more decimals.

Here's an example to illustrate. Give all answers with 2 decimal places. Start with 30. Divide by 7. Multiply by 13.  $30/7 = 4.285714286$  and  $30/7*13 = 55.71428571$ . If you enter 4.29 and 55.71 (or 4.2857 and 55.714), you'll get both questions correct. If you enter 4.29 and then  $4.29*13 = 55.77$ , you'll miss the 55.77.

When you click "Submit", the computer will provide immediate feedback by showing you which problems you have correct and giving you a chance to fix the ones that you missed. Most of the time, you may submit an exercise three times before you have to "Generate" a new set of exercises.

You may try each exercise as many times as you like, but you only get three attempts at each one. The highest grade that you get will be recorded in the gradebook, so feel free to practice until you master the exercises. There are going to be problems like the homework exercises on the exam, so you may want to revisit the exercises as part of your review for the exam.

Each homework exercise is worth 5 points. The due dates and times are shown online at the top of each exercise. Late work will be accepted, but it will lose 20% of its value for each class period it is late.