

# Math 113 - Homework Exercises

#	Topic	Ch	Due Date	Score
1	Descriptive and Inferential Statistics	1	Mon, Jan 31	_____
2	Levels of Measurement	2	Wed, Feb 2	_____
3	Interpreting Graphs	3	Fri, Feb 4	_____
4	Finding Descriptive Statistics	4	Wed, Feb 9	_____
5	Manipulating the Data	5	Fri, Feb 11	_____
6	Probabilities from Contingency Tables	6	Wed, Feb 16	_____
7	Probabilities of Compound Events	7	Wed, Feb 23	_____
8	Counting and Probability Distributions	8	Wed, Mar 2	_____
9	Binomial Probabilities	9	Fri, Mar 4	_____
10	Standard Normal Probabilities	10	Mon, Mar 7	_____
11	Non-Standard Normal Probabilities	11	Wed, Mar 9	_____
12	Types of Sampling	12	Mon, Mar 21	_____
13	Sampling Distributions	13	Wed, Mar 23	_____
14	Confidence Interval for One Mean	14	Fri, Mar 25	_____
15	Confidence Interval for One Proportion	14	Mon, Mar 28	_____
16	Introduction to Hypothesis Testing	15	Wed, Mar 30	_____
17	Testing One Mean	16	Fri, Apr 1	_____
18	Testing One Proportion	16	Mon, Apr 4	_____
19	Testing Two Means	17	Wed, Apr 6	_____
20	Testing Two Proportions	17	Fri, Apr 8	_____
21	Determining the Appropriate Basic Test		Wed, Apr 13	_____
22	Chi-Square Goodness of Fit	18	Wed, Apr 20	_____
23	Chi-Square Test for Independence	18	Mon, Apr 25	_____
24	One-Way Analysis of Variance	19	Fri, Apr 29	_____
25	Two-Way Analysis of Variance		Mon, May 2	_____
26	Correlation	20	Wed, May 4	_____
27	Simple Regression	20	Wed, May 11	_____
28	Regression and ANOVA	20	Fri, May 13	_____
29	Multiple Regression		Mon, May 16	_____
30	Determining the Appropriate Advanced Test		Tue, May 17	_____

## Math 113 - Homework Exercises

The homework component of this course is a result of feedback on course evaluations from previous students. While the emphasis of the course is on understanding the big picture and not on performing the calculations, they felt that the projects alone were insufficient to learn the material. They appreciated the opportunity to practice the material and receive immediate feedback on their understanding. Based on their feedback, the number of projects has been reduced and homework has been reintroduced into the course.

The textbook is optional in this course, so collecting homework from it would be impossible. Instead, homework will be completed online and submitted for a grade. You will need Internet access and your calculator while working these problems, but you do not need Minitab.

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. No late work will be accepted after the final exam.

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.*

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, but you may give more. When there are multiple steps to a problem, the intermediate steps are not rounded. This means that although you may enter a rounded number in the answer box, you should not use that rounded number to find other numbers.