

Suggested Homework Guidelines and Exercises, MATH 1342, BPS 5th edition

Which exercises:

The main homework exercises are listed in bold type in the list on the next page. The non-bold exercises at the in brackets at the beginning of each chapter's list are for those who need immediate practice as they are reading through the chapter. Some of them will probably be covered in the lecture.

Checking answers and showing your work:

Most of the assigned exercises have short answers in the back of the book, and more complete answers in StatsPortal. You may be tempted to read the exercise, read the answer, and then decide whether it makes sense to you. That is **not** a good strategy to learn the material. In order to be able to do problems like these on tests, you must practice doing them yourself. Use the textbook examples when you want to read a solution and the exercises to practice solving them yourself. Work the exercise yourself completely, or at least write a question about what you don't understand before you look at the answer. See homework notes for the first six chapters: <http://www.austincc.edu/mparker/1342/tf/>

Check Your Skills questions:

These short multiple-choice questions at the end of each chapter before the exercises are provided so that you can quickly determine whether you have seen the basic ideas in the chapter. Before you start the homework, use these to give yourself a quick overview of the material. If you miss any, review that section of the chapter before starting the exercises.

Analysis, Interpretations, and Conclusions

Statistics is not a typical math course. If your concept of a math course is to learn an algebraic technique and then work several problems using algebraic notation with that technique, this course will seem unusual to you. You will learn techniques and work some problems using numerical and algebraic notation, but in almost all cases, you'll be expect to say something about the meaning of what you have computed. The answers in the back of the book don't have the full analysis and conclusions that you are expected to write. The examples in the text do have models of those analyses and conclusions and the answers in StatsPortal have that as well. In order to succeed in this course, you must practice this as you go through the homework. In order to help you get off to a good start on this, additional comments on what you are supposed to be learning from the homework problems are available for the first six chapters. Find those on the course website <http://www.austincc.edu/mparker/1342/tf/>

Technology:

Problems with (M) have some part for which you are required to use MINITAB, specifically. Problems with (A) require an applet. Find these applets in StatsPortal or on the publisher's website. You may use MINITAB on additional exercises if you wish.

Find the data files for the textbook from <http://www.austincc.edu/mparker/software/data/>. This website is used to get the data into both Minitab and into Crunch-It. There is a link to this from the course website at <http://www.austincc.edu/mparker/1342/tf/>. An orientation to the software is also available, and, mixed in with the data files are some notes with help.

On the problems requiring technology, as on all homework, you should spend as much time and thought answering questions about what the results mean as you spend calculating. Your answers should reflect this. During the tests, you will not have computer access and may not even be allowed to use a graphing calculator. Test questions will be adjusted to reflect the tools you have available at that time. Ask your instructor in advance what you will be allowed to use on each test.

Chapter 1: [1.1, 1.3, 1.5, 1.7, 1.9, 1.11, 1.13-1.22], **1.23, 1.24, 1.27, 1.29, 1.31, 1.33, 1.37, 1.40, 1.41, 1.45(M), 1.46(T)**

Chapter 2: [2.1, 2.3, 2.7, 2.9, 2.11(M to find st dev and mean), 2.12, 2.13, 2.15-2.24], **2.25, 2.30, 2.31, 2.33(A), 2.35(M), 2.37(M), 2.38, 2.39, 2.45(M), 2.49**

Chapter 3: [3.1, 3.2, 3.4, 3.5, 3.7, 3.9, 3.10, 3.11, 3.12, 3.13, 3.14, 3.15-3.24], **3.25, 3.27, 3.29, 3.31, 3.33, 3.35, 3.36, 3.39, 3.43, 3.45, 3.47, 3.49(M), 3.52(A)**

Chapter 4: [4.1, 4.3, 4.5, 4.7, 4.9, 4.11, 4.13(M), 4.14-4.23], **4.25, 4.28(M), 4.31(M), 4.35(by hand), 4.37, 4.38, 4.39, 4.40(A), 4.41(A), 4.43(M)**

Chapter 5: [5.1, 5.3(M), 5.5, 5.7(M), 5.9(A), 5.11(M), 5.13, 5.15, 5.17-5.26], **5.27, 5.29, 5.31, 5.33, 5.34(M for equation, the rest by hand), 5.37(M), 5.38(M), 5.39(M), 5.41(M and then draw the lines on the graph by hand), 5.43, 5.49(A), 5.53(M), 5.55(M)**

Chapter 6: [6.1, 6.3, 6.5, 6.7, 6.8 – 6.17], **6.19, 6.20, 6.21, 6.22, 6.23, 6.25, 6.27, 6.31, 6.32**

Chapter 7: Review **7.1, 7.7, 7.9, 7.11, 7.17, 7.22(M), 7.25(M), 7.29, 7.31, 7.35(M), 7.36(M)**

Chapter 8: [8.1, 8.3, 8.5, 8.7, 8.9, 8.11, 8.13, 8.15, 8.16 – 8.24], **8.25, 8.29, 8.31, 8.33, 8.37, 8.38, 8.39(by hand AND with M), 8.41, 8.45, 8.47**

Chapter 9: [9.1, 9.3, 9.5, 9.7, 9.9, 9.11, 9.13, 9.15, 9.17, 9.19 – 9.27], **9.29, 9.31, 9.35, 9.37(by hand as written and with M assign all), 9.43, 9.44, 9.47, 9.48, 9.49**

Data Ethics (page 256-260): **1, 3, 7**

Chapter 10: [10.1, 10.3, 10.5, 10.7, 10.9, 10.11, 10.13, 10.15, 10.16, 10.17, 10.21 – 10.30], **10.31, 10.33, 10.39, 10.41, 10.43, 10.47, 10.49, 10.50, 10.51, 10.52, 10.57(A)**

Chapter 11: [11.1, 11.3, 11.5, 11.7(M), 11.9, 11.11, 11.13, 11.14 – 11.21], **11.23, 11.26, 11.27, 11.29, 11.33, 11.34, 11.35, 11.37**

Chapter 14: [14.1, 14.9, 14.11, 14.15, 14.21, 14.23], **14.2(A), 14.5(M), 14.7, 14.17(A), 14.19, 14.34, 14.36, 14.37, 14.43, 14.55(M), 14.57**

Chapter 15: [15.11, 15.31, 15.33, 15.35, 15.39], **15.7(A), 15.8(A), 15.9, 15.29, 15.32, 15.38, 15.41**

Chapter 16: [16.5, 16.11, 16.15, 16.19, 16.31], **16.6(M), 16.9, 16.17, 16.22, 16.27, 16.29, 16.32, 16.45(M), 16.47(M), 16.48**

Chapter 17: [17.5, 17.7, 17.11(M), 17.33, 17.36], **17.13(M), 17.14(M), 17.29, 17.32, 17.37, 17.45(M), 17.47**

Chapter 18: [18.11, 18.29, 18.39, 18.41], **18.5(M), 18.9, 18.15, 18.25, 18.32, 18.33, 18.35(M), 18.37, 18.47(M), 18.50(M)**

Minitab Note: For chapters 19 and 20 the data is summarized. You must enter the sample size (trials) and the successes (events). There is no reason to use a data file.

Chapter 19: [19.11, 19.13(M), 19.29, 19.33, 19.37], **19.7, 19.9(M), 19.14, 19.27, 19.38(M), 19.39, 19.41, 19.43**

Chapter 20: [20.7, 20.17, 20.27, 20.31, 20.35(M)], **20.5, 20.8, 20.19(M), 20.21, 20.22, 20.23, 20.25, 20.32(M)**

Chapter 21: [21.1(M), 21.5, 21.6, 21.20, 21.21(M), 21.31], **21.3(M), 21.19(M), 21.23, 21.33, 21.35, 21.39, 21.44(M), 21.45(M)**

Chapter 22: [22.5, 22.35(M), 22.39, 22.41], **22.7, 22.9(M), 22.29(M), 22.32, 22.36**

Chapter 23: [23.2, 23.10, 23.13, 23.15(M), 23.25], **23.1(M), 23.4, 23.7, 23.9, 23.12, 23.29, 23.30, 23.31, 23.38(M)**