

Statistics Assignments and Tests

(Understanding Basic Statistics, 5th edition, by Brase)

Assignments below are not mandatory for every student. Adjustments are allowed for a variety of reasons, including time constraints. Contact Dana@chalkdust.com with questions or comments.

Since organizational skills contribute to student success in math, I encourage students to organize assignments using the guidelines below. You are welcome to alter the guidelines as you wish, but thought you'd like to know what I do in a classroom environment.

1. Place homework on lined paper, either loose leaf or in a notebook.
2. Place your name and the section number at the top of each page.
3. Work on one side of each sheet of paper.
4. Show all work necessary to complete each problem, including a diagram wherever applicable.
5. Problem numbers should appear in the left margin and the problem should appear to the right.
6. Copy each problem as it appears in the text except for word problems.
7. Problems must be in sequential order and arranged vertically.
8. Use only a pencil.
9. A second column may be used on a page by drawing a second margin line (with a ruler) down the middle of the page.

Notes:

1. Chapter tests are not printed in the textbook, so test problems are taken from the Review Exercise problem set. Therefore, please review for tests by going over homework problems. Complicated formulas may be looked up in the text when working homework or tests. (You're welcome.)

2. I suggest there be no time constraints on tests. In fact, if necessary, allow more than one day for the completion of tests.

3. Allow 3-4 days for the completion of each section. That is, watch video on the first day and begin the assignment. Continue to work on the assignment, referring back to the video and to examples in the textbook for the next 2 or 3 days until the assignment is complete. There are 36 sections in the textbook so allowing 4 days per section is not going to delay the completion of the course in a normal school year.

4. Overview:

The first 5 chapters contain material that may be considered "background" to facilitate a better understanding of the main topics of study. The most important chapters are chapters 6-9. In my opinion, The Central Limit Theorem in Section 7.5 is the most important single idea in the overall study of statistics because it is the basis of why we can rely on statistical studies.

Chapter 1

1.1 1-5, 7-9 odd

1.2 9-15 odd

1.3 3, 5

Chapter 1 Test: Review Exercises, page 29

Problems 4, 5, 9

Chapter 2

2.1 2, 3, 7, 9, 11, 15

2.2 3, 5, 7, 11

2.3 1, 2, 3, 10

Chapter 2 Test: Review Exercises, page 65

Problems 6, 7, 8, 10, 11

Chapter 3

3.1 1, 2, 3, 6, 7, 8, 11

3.2 1, 4, 6, 9, 11

3.3 1, 2, 4, 5, 7, 8, 9

Chapter 3 Test: Review Exercises, page 109

Problems 1, 2, 4, 7, 8

Chapter 4

4.1 1-7, 10, 11, 13, 15,

4.2 1, 4, 9, 10, 11,

Chapter 4 Test: Review Exercises, page 150

Problems 1, 3, 5, 6, 7

Chapter 5

5.1 2, 3, 5, 9a, 10, 11a, 12, 13

5.2 1, 2, 5, 6, 7, 9, 11-18, 22, 23

5.3 1, 3, 5, 6, 9, 11, 12, 13-23 odd, 24, 25

Chapter 5 Test: Review Exercises, page 196

Problems 1, 5, 6, 10, 11, 12, 13, 15, 16

Chapter 6

6.1 1, 2, 3, 6, 7, 9, 11, 12, 13

6.2 2, 3, 4, 6, 9, 11-14, 16

6.3 1, 2, 6, 7, 9, 11-14

Chapter 6 Test: Review Exercises, page 234
Problems 4, 5, 6, 9, 11

Chapter 7

7.1 2, 3, 5, 6, 7, 8, 10

7.2 1-8, 11-47 odd

7.3 1, 2, 3, 5-29 odd, 31(optional, advanced)

7.4 3, 4, 6

7.5 1-8, 11, 15

7.6 1, 3, 6, 7, 9, 11, 13

Chapter 7 Test: Review Exercises, page 298
Problems 2, 3, 4, 7, 9, 11, 13, 15, 17(a)

Chapter 8

8.1 3, 4, 5, 6, 8, 11, 13, 14, 15, 18, 19

8.2 1-9, 11, 13, 15, 16, 18, 20

8.3 1, 2, 4, 5, 6, 9, 11, 12, 15, 17, 19, 20

Chapter 8 Test: Review Exercises, page 342
Problems 2, 3, 4, 7-12

Chapter 9

9.1 2-7, 9, 11, 13

9.2 1-5, 7, 11, 13, 17, 19, 25, 29

9.3 1, 2, 3, 7, 8, 10, 11, 12, 15, 16, 20, 22

Chapter 9 Test: Review Exercises, page 394
Problems 3-7, 9, 10

Chapter 10

10.1 1, 3-9, 12, 13, 17, 18

10.2 1, 2, 3, 5, 6, 7, 10, 11, 15, 16, 21, 22

10.3 1-7, 9, 11, 12, 13, 15

Chapter 10 Test: Review Exercises, page 449
Problems 3, 5, 6, 9

Chapter 11

11.1 1, 2, 3, 5, 7, 9, 11

11.2 1, 4, 5, 6, 7, 8, 11, 13

11.3 1, 4, 5, 8, 9

11.4 1-4, 7, 8, 9, 11

Chapter 11 Test: Review Exercises, page 506

Problems 1, 2, 4, 5, 10, 11