

MATH 1342

Homework 6 (Chapter 6)

Instructions: Answer all questions through the EMCF tab of casa under the assignment named “Homework 6” before the deadline.

There is no “Submit” button. Your answers will be automatically submitted once the deadline arrives.

Assignments will be graded out of 10 points.

1. Section 6.1; Problem 2 A. True B. False

2. Section 6.1; Problem 4 A. True B. False

3. Section 6.1; Problem 8 (Population and Sample)

A. Population: All regulators; Sample: 5 selected regulators.

B. Population: 10 manufacturers; Sample: 5 selected regulators.

C. Population: All regulators; Sample: 10 manufacturers.

D. Population: All regulators; Sample: 50 selected regulators.

E. Population: 50 selected regulators; Sample: 10 manufacturers.

4. Section 6.1; Problem 8 (Sampling Technique)

A. Simple Random Sample B. Convenience Sample

C. Multi-stage Sampling D. Stratified Sampling

E. Probability Sampling

5. Section 6.2; Problem 4 (a) A. Experiment B. Observational Study

6. Section 6.2; Problem 4 (b) A. Randomized B. Block Design

7. Section 6.2; Problem 4 (c)

- A. Explanatory: IQ Score; Response: Music/Relax/No Instructions Groups
- B. Explanatory: Music/Relax/No Instructions Groups; Response: Subject Age
- C. Explanatory: Music/Relax/No Instructions Groups; Response: IQ Score
- D. Explanatory: Subject Age; Response: IQ Score
- E. Explanatory: Subject Age; Response: Music/Relax/No Instructions Groups

8. Section 6.3; Problem 7 (a)

- A. Single Digits Assigned: Women: 0, 1, 2, 3; Men: 4, 5, 6, 7, 8, 9
- B. Single Digits Assigned: Women: 0, 1, 2, 3, 4; Men: 5, 6, 7, 8, 9
- C. Two Digits Assigned: Women: 00 to 49; Men: 50 to 99
- D. Single Digits Assigned: Women: 0; Men: (all other numbers ignored)
- E. Single Digits Assigned: Women: 0, 2, 4, 6, 8; Men: 1, 3, 5, 7, 9

9. Section 6.3; Problem 7 (b) [Use Line 136 only]

- A. First Run: 3; Second Run: 5; Third Run: 6
- B. First Run: 6; Second Run: 2; Third Run: 4
- C. First Run: 5; Second Run: 5; Third Run: 4
- D. First Run: 3; Second Run: 5; Third Run: 5
- E. First Run: 3; Second Run: 3; Third Run: 2

10. Section 6.3; Problem 7 (c)

- A. Expected Value: 6.67 (Assume 7)
- B. Expected Value: 5
- C. Expected Value: 4.33 (Assume 4)
- D. Expected Value: 7.33 (Assume 7)
- E. None of the above choices.