

Chapter 2 - Frequency Distributions and Graphs

EXERCISE SET 2-1

1. Frequency distributions are used to organize data in a meaningful way, to determine the shape of the distribution, to facilitate computational procedures for statistics, to make it easier to draw charts and graphs, and to make comparisons among different sets of data.

2. Categorical distributions are used with nominal or ordinal data, ungrouped distributions are used with data having a small range, and grouped distributions are used when the range of the data is large.

3. Five to twenty classes. Width should be an odd number so that the midpoint will have the same place value as the data.

4. An open-ended frequency distribution has either a first class with no lower limit or a last class with no upper limit. They are necessary to accommodate all the data.

5.

Boundaries: 57.5 – 62.5

Midpoint: 60

Width: 5

6.

Boundaries: 124.5 – 131.5

Midpoint: 128

Width: 7

7.

Boundaries: 16.345 – 18.465

Midpoint: 17.405

Width: 2.12

8.

Boundaries: 16.25 – 18.55

Midpoint: 17.4

Width: 2.3

9. Class width is not uniform.

10. Class limits overlap, and class width is not uniform.

11. A class has been omitted.

12. Class width is not uniform.

13.

Class	<i>f</i>	Percent
V	6	12
C	7	14
M	22	44
H	3	6
P	12	24
	50	100

The mocha flavor class has the most data values and the hazelnut class has the least number of data values.

14.

Class	<i>f</i>	Percent
A	4	10%
M	28	70%
H	6	15%
S	2	5%
	40	100%

15.

Limits	Boundaries	<i>f</i>
0	-0.5 - 0.5	2
1	0.5 - 1.5	5
2	1.5 - 2.5	24
3	2.5 - 3.5	8
4	3.5 - 4.5	6
5	4.5 - 5.5	4
6	5.5 - 6.5	0
7	6.5 - 7.5	1

50

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John E. Freund, Benjamin M. Perles



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Student Solutions Manual for Elementary Statistics: A Step By Step Approach Allan Bluman, 2011-02-10

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Supplement, 2002 *Combo: Elementary Statistics, A Brief Version with Student Solutions Manual* Allan

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Table of Contents Elementary Statistics Bluman Problems Solutions Manual

1. Understanding the eBook Elementary Statistics Bluman Problems Solutions Manual
 - The Rise of Digital Reading Elementary Statistics Bluman Problems Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Elementary Statistics Bluman Problems Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Elementary Statistics Bluman Problems Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Elementary Statistics Bluman Problems Solutions Manual
 - Personalized Recommendations
 - Elementary Statistics Bluman Problems Solutions Manual User Reviews and Ratings

- Elementary Statistics Bluman Problems Solutions Manual and Bestseller Lists
- 5. Accessing Elementary Statistics Bluman Problems Solutions Manual Free and Paid eBooks
 - Elementary Statistics Bluman Problems Solutions Manual Public Domain eBooks
 - Elementary Statistics Bluman Problems Solutions Manual eBook Subscription Services
 - Elementary Statistics Bluman Problems Solutions Manual Budget-Friendly Options
- 6. Navigating Elementary Statistics Bluman Problems Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Elementary Statistics Bluman Problems Solutions Manual Compatibility with Devices
 - Elementary Statistics Bluman Problems Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Elementary Statistics Bluman Problems Solutions Manual
 - Highlighting and Note-Taking Elementary Statistics Bluman Problems Solutions Manual
 - Interactive Elements Elementary Statistics Bluman Problems Solutions Manual
- 8. Staying Engaged with Elementary Statistics Bluman Problems Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Elementary Statistics Bluman Problems Solutions Manual
- 9. Balancing eBooks and Physical Books Elementary Statistics Bluman Problems Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Elementary Statistics Bluman Problems Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Elementary Statistics Bluman Problems Solutions Manual
 - Setting Reading Goals Elementary Statistics Bluman Problems Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Elementary Statistics Bluman Problems Solutions Manual
 - Fact-Checking eBook Content of Elementary Statistics Bluman Problems Solutions Manual
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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