

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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Table of Contents Answers For Statistics By Alan Bluman

1. Understanding the eBook Answers For Statistics By Alan Bluman
 - The Rise of Digital Reading Answers For Statistics By Alan Bluman
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Statistics By Alan Bluman
 - 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 Answers For Statistics By Alan Bluman
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Statistics By Alan Bluman

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

- Fact-Checking eBook Content of Answers For Statistics By Alan Bluman
- 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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