

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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1. Understanding the eBook Answers For Elementary Statistics 8th Edition Bluman
 - The Rise of Digital Reading Answers For Elementary Statistics 8th Edition Bluman
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Elementary Statistics 8th Edition 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 Elementary Statistics 8th Edition Bluman
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Elementary Statistics 8th Edition Bluman
 - Personalized Recommendations
 - Answers For Elementary Statistics 8th Edition Bluman User Reviews and Ratings
 - Answers For Elementary Statistics 8th Edition Bluman and Bestseller Lists

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 - Answers For Elementary Statistics 8th Edition Bluman Enhanced eBook Features
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 - Interactive Elements Answers For Elementary Statistics 8th Edition Bluman
8. Staying Engaged with Answers For Elementary Statistics 8th Edition Bluman
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Elementary Statistics 8th Edition Bluman
9. Balancing eBooks and Physical Books Answers For Elementary Statistics 8th Edition Bluman
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Elementary Statistics 8th Edition Bluman
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Answers For Elementary Statistics 8th Edition Bluman
 - Setting Reading Goals Answers For Elementary Statistics 8th Edition Bluman
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Answers For Elementary Statistics 8th Edition Bluman
 - Fact-Checking eBook Content of Answers For Elementary Statistics 8th Edition 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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