

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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Clemens Wendtner



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accompany Elementary Statistics: A Brief Version Allan Bluman, 2011-01-27 Comprehensive Dissertation Index,
1861-1972: Mathematics and statistics Xerox University Microfilms, 1973 **Journal of the American Statistical Association** American Statistical Association, 1956 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data *Probability Demystified* Allan G. Bluman, 2005-01-27 Many people do not understand the basic concepts of probability as evidenced by the proliferation of those participating in lotteries horse racing and gambling at casinos But probability and statistics are becoming increasingly important in today's society As the basic ideas are being taught in elementary schools through college it is important that everyone has a basic understanding of probability theory Probability theory explains the happenings that occur due to chance Although it is not possible to predict for certain the individual outcome of a chance process it is possible to determine outcomes in the long run and to predict the probability that something will eventually occur This book will present the basics of probability in a non rigorous manner Only an understanding of arithmetic and some basic algebra are necessary to learn these ideas No high powered mathematical notation or formal proofs will be used rather the concepts will be developed from examples using coins dice cards and other common probability devices

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