

## 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       |

# Answers For Elementary Statistics 8th

**Robert R. Johnson**



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