

Solutions Manual for Basic Statistics in Business and Economics 10th Lind

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RESOURCE TYPE

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Chapter 2

Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

1. Pepsi-Cola has a 25% market share, found by $90/360$. (LO2-2)

2. Three classes are needed, one for each player. (LO2-1)

- 3.

Season	Frequency	Relative Frequency
Winter	100	0.1
Spring	300	0.3
Summer	400	0.4
Fall	200	0.2
Total	1000	1.0

(LO2-1)

- 4.

City	Frequency	Relative Frequency
Indianapolis	100	0.05
St. Louis	450	0.225
Chicago	1300	0.65
Milwaukee	150	0.075

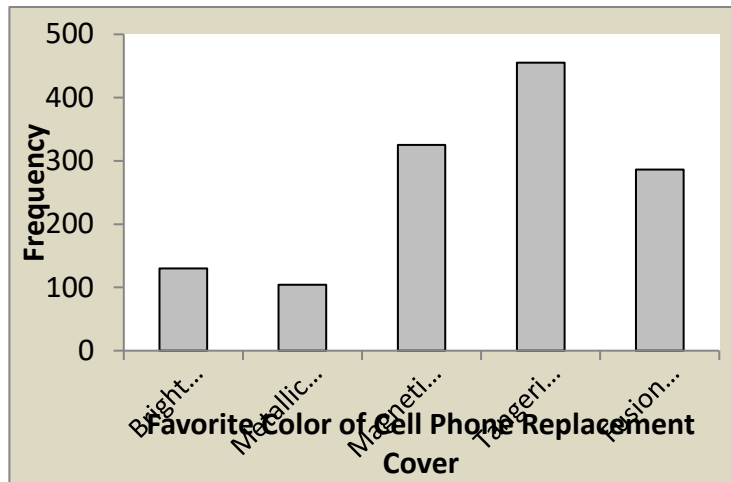
(LO2-1)

5. a. A frequency table.

Color	Frequency	Relative Frequency
Bright White	130	0.10
Metallic Black	104	0.08
Magnetic lime	325	0.25
Tangerine Orange	455	0.35
Fusion Red	286	0.22
Total	1300	1.00

- b.

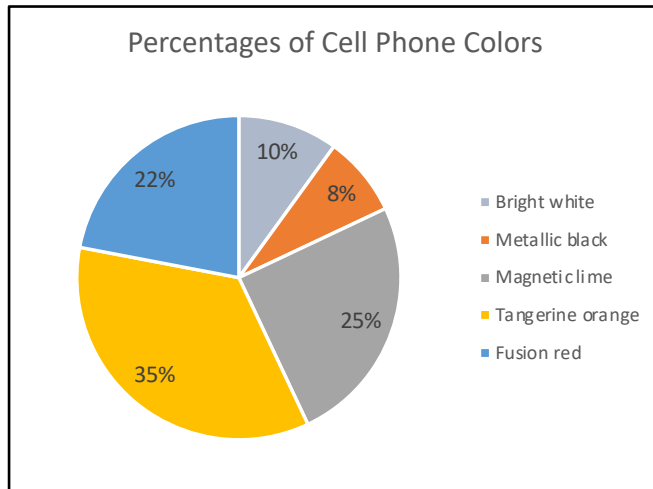
Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation



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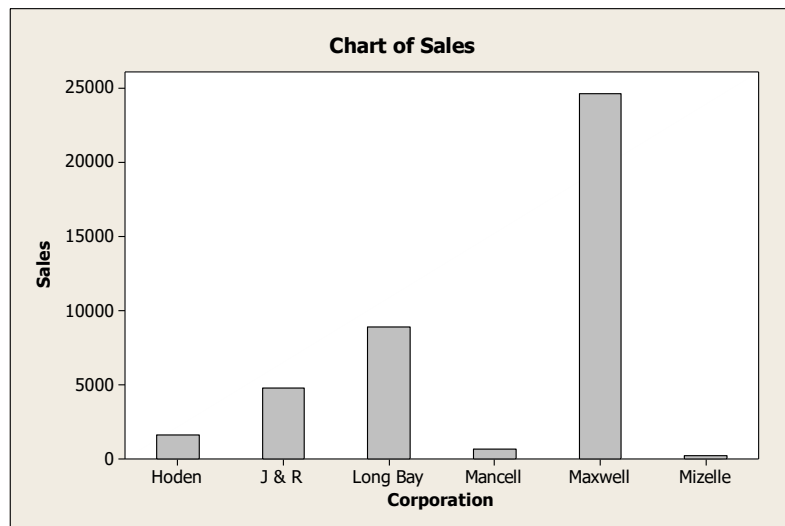
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c.



d. Wellstone Inc. should produce 350,000 orange; 250,000 lime; 220,000 red; 100,000 white, and 80,000 black. These numbers are found by multiplying the relative frequency of each color by the 1,000,000 production level. **(LO2-2)**

6. Maxwell Heating & Air Conditioning far exceeds the other corporations in sales. Mancell Electric & Plumbing and Mizelle Roofing & Sheet Metal are the two corporations with the least amount of fourth quarter sales. **(LO2-2)**



7. $2^5 = 32 < 38 < 64 = 2^6$ therefore 6 classes **(LO2-3)**
8. $2^5 = 32 < 45 < 64 = 2^6$ suggests 6 classes. $i \geq \frac{\$29 - \$0}{6} = 4.83$ Use interval of 5. **(LO2-3)**
9. $2^7 = 128 < 230 < 256 = 2^8$ suggests 8 classes $i \geq \frac{567 - 235}{8} = 41.5$ Use interval of 41.5. **(LO2-3)**

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10. a. $2^5 = 32 < 53 < 64 = 2^6$ suggests 6 classes.
- b. $i \geq \frac{129 - 42}{6} = 14.5$ Use interval of 15 and start first class at 40. **(LO2-3)**

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11. a. $2^4 = 16$ suggests 5 classes
- b. $i \geq \frac{31-25}{5} = 1.2$ Use interval of 1.5
- c. 24
- d.
- | | f | Relative frequency |
|---------------|----------|--------------------|
| 24 up to 25.5 | 2 | 0.125 |
| 25.5 up to 27 | 4 | 0.250 |
| 27 up to 28.5 | 8 | 0.500 |
| 28.5 up to 30 | 0 | 0.000 |
| 30 up to 31.5 | <u>2</u> | <u>0.125</u> |
| Total | 16 | 1.000 |
- e. The number of units produced in the past 16 days range between 24 and 31 units. The largest concentration is in the 27 up to 28.5 class (8). **(LO2-3)**
12. a. $2^4 = 16 < 20 < 32 = 2^5$ suggest 5 classes
- b. $i \geq \frac{98-51}{5} = 9.4$ Use interval of 10.
- c. 50
- d.
- | | f | Relative frequency |
|--------------|----------|--------------------|
| 50 up to 60 | 4 | 0.20 |
| 60 up to 70 | 5 | 0.25 |
| 70 up to 80 | 6 | 0.30 |
| 80 up to 90 | 2 | 0.10 |
| 90 up to 100 | <u>3</u> | <u>0.15</u> |
| Total | 20 | 1.00 |
- e. The fewest number is about 50, the highest about 100. The greatest concentration is in classes 60 up to 70 and 70 up to 80. **(LO2-3)**
13. a.
- | <i>Visits</i> | f |
|---------------|----------|
| 0 up to 3 | 9 |
| 3 up to 6 | 21 |
| 6 up to 9 | 13 |
| 9 up to 12 | 4 |
| 12 up to 15 | 3 |
| 15 up to 18 | <u>1</u> |
| Total | 51 |
- b. The largest group of shoppers (21) shop at BiLo 3, 4 or 5 times during a month period. Some customers visit the store only 1 time during the month, but others shop as many as 15 times.
- c.
- | <i>Number of Visits</i> | <i>Percent of Total</i> |
|-------------------------|-------------------------|
| 0 up to 3 | 17.65 |
| 3 up to 6 | 41.18 |
| 6 up to 9 | 25.49 |
| 9 up to 12 | 7.84 |
| 12 up to 15 | 5.88 |
| 15 up to 18 | <u>1.96</u> |
| Total | 100.00 |
- (LO2-3)**

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14. a. The 2^k rule would suggest 6 classes as $2^5 = 32 < 40 < 64 = 2^7$. With seven classes the interval would be larger than $(84 - 18) / 6 = 11$, but as we are summarizing money observations a class interval of 10 is more convenient to work with. The frequency distribution using 10 is:

	<i>f</i>
15 up to 25	1
25 up to 35	2
35 up to 45	5
45 up to 55	10
55 up to 65	15
65 up to 75	4
75 up to 85	<u>3</u>
Total	40

- b. Data tends to cluster in classes 45 up to 55 and 55 up to 65.
 c. Based on the distribution, the youngest person taking the Caribbean cruise is 15 years (actually 18 from the raw data). The oldest person was less than 85 years (actually 84 from the raw data). The largest concentration of ages is between 45 up to 65 years.

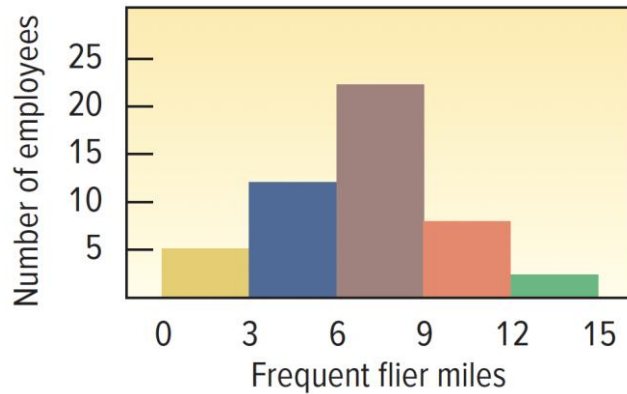
<i>Ages</i>	<i>Percent of Total</i>
15 up to 25	2.5
25 up to 35	5.0
35 up to 45	12.5
45 up to 55	25.0
55 up to 65	37.5
65 up to 75	10.0
75 up to 85	<u>7.5</u>
Total	100.0

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(LO2-3)

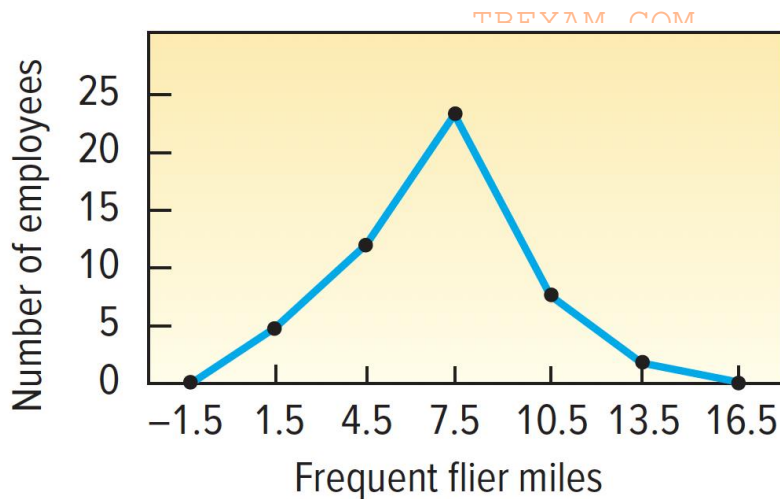
15. a. Histogram
 b. 100
 c. 5
 d. 28
 e. 0.28
 f. 12.5
 g. 13 (LO2-4)
16. a. 3
 b. about 26
 c. 2
 d. frequency polygon (LO2-4)

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17. a. 50
b. 1.5 thousand frequent flier miles
c.



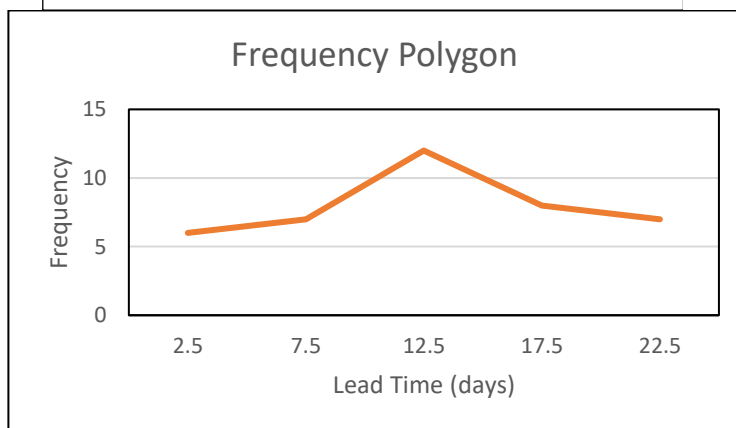
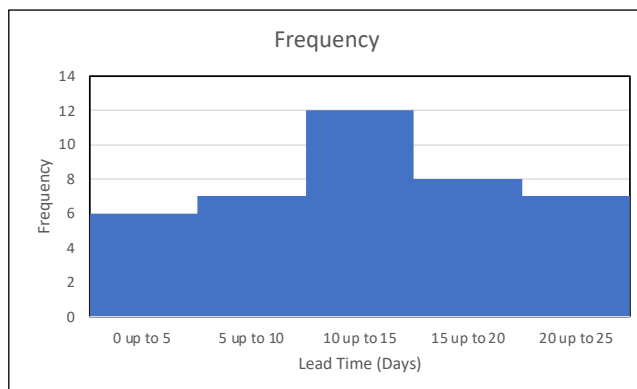
- d. $X = 1.5, Y = 5$
e.



- f. For the 50 employees about half earn between 6 and 9 thousand frequent flier miles. Five earn less than 3 thousand frequent flier miles, and two earn more than 12 thousand frequent flier miles. **(LO2-4)**
18. a. 40
b. 2.5 days
c. 2.5, 6

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d.



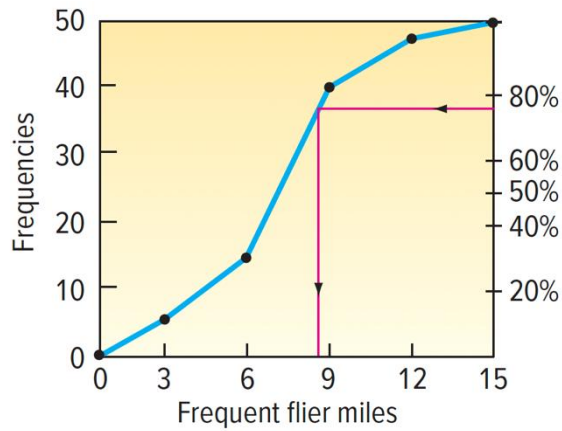
e.

- f. Based on the charts, the shortest lead time is 0 days, the longest 25 days. The concentration of lead times is 10-15 days. **(LO2-4)**

19. a. 40
b. 5
c. 11 or 12
d. about \$18 per hour
e. about \$9 per hour
f. about 78% **(LO2-4)**
20. a. 200
b. 50 or \$50,000
c. about \$180,000
d. about \$240,000
e. about 60 homes
f. about 145 homes **(LO2-4)**
21. a. 5
b. Miles CF
Less than 3 5
Less than 6 17

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Less than 9	40
Less than 12	48
Less than 15	50



c.

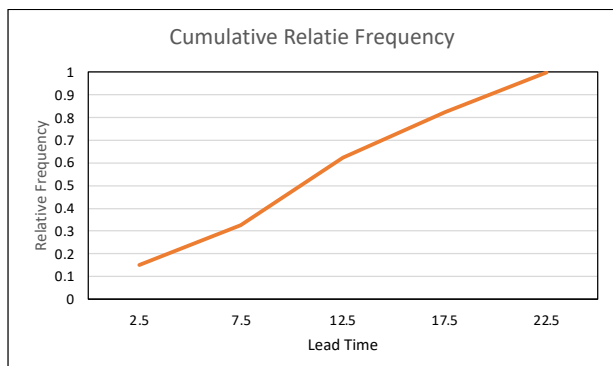
d. about 8.7 thousand frequent flier miles **(LO2-4)**

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22. a. 13, 25
- b.
- | <i>Lead Time</i> | <i>Cum. Freq</i> | <i>Cumulative Relative Frequency</i> |
|------------------|------------------|--------------------------------------|
| Less than 5 | 6 | .15 or 15% |
| Less than 10 | 13 | .325 or 32.5% |
| Less than 15 | 25 | .625 or 62.5% |
| Less than 20 | 33 | .825 or 82.5% |
| Less than 25 | 40 | 1.00 or 100% |

c.



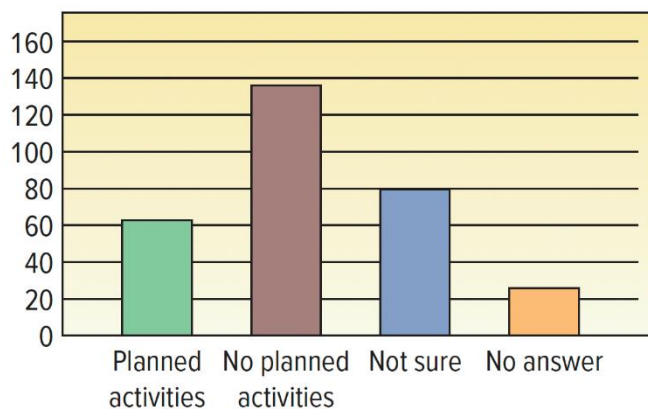
d. 14 (LO2-4)

23. a. Qualitative variables are ordinarily nominal level of measurement, but some are ordinal. Quantitative variables are commonly of interval or ratio level of measurement. (LO1-5)

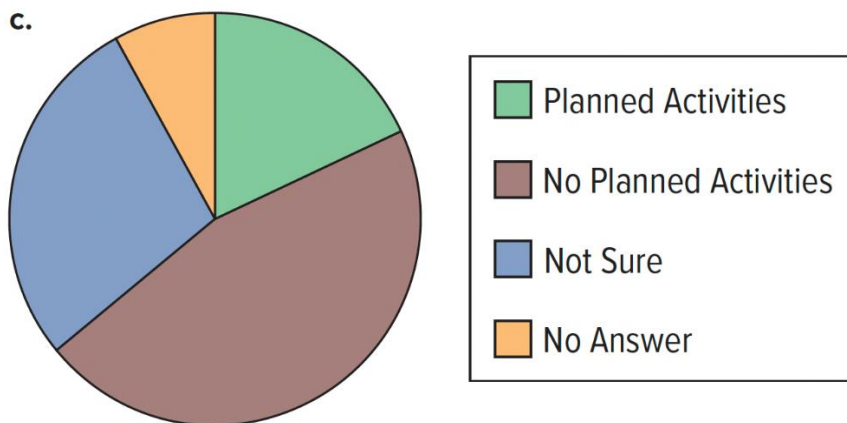
b. Yes, both types depict samples and populations. (LO1-3)

24. A frequency table calls for qualitative data. On the other hand, a frequency distribution involves quantitative data. (LO2-1 and 2-3)

25. a. A frequency table.
- b.



Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation



c.

d. The pie chart may be easier to comprehend as the percentages of potential customers are likely more important than the number of potential customers.
(LO2-2)

26. a. The scale is ordinal and the variable is qualitative.

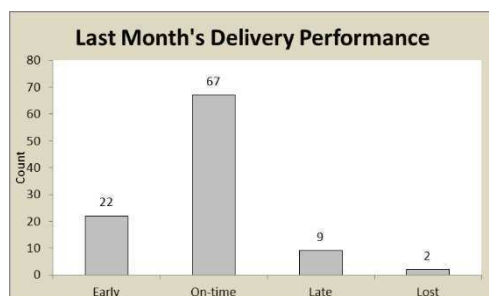
b.

Performance	Frequency
Early	22
On-time	67
Late	9
Lost	2

c.

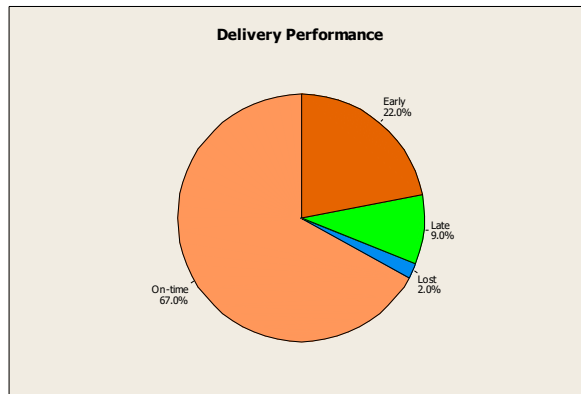
Performance	Relative Frequency
Early	.22
On-time	.67
Late	.09
Lost	.02

d.



Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

e.



- f. 89% of the packages are either early or on-time and 2% of the packages are lost. So they are missing both of their objectives. They must eliminate all lost packages and reduce the late percentage to below 1%. **(LO2-2)**

27. The 2^k rule would suggest using 7 classes as $2^6 = 64 < 83 < 128 = 2^7$. **(LO2-3)**

28. $2^7 = 128 < 145 < 256 = 2^8$ suggests 8 classes. $i \geq \frac{490-56}{8} = 54.25$ Use interval of 60.

(LO2-3)

29. a. 5 because $2^4 = 16 < 25 < 32 = 2^5$

b. $i \geq \frac{48-16}{5} = 6.4$ suggests an interval of 7.

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c. 15

d. Class Frequency

15 up to 22	3
22 up to 29	8
29 up to 36	7
36 up to 43	5
43 up to 50	2
Total	25

- e. Based on the frequency distribution we see the data are fairly symmetric with most of the values between 22 and 36 and a minimum of 15 and a maximum of 50. **(LO2-3)**

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

30. a. 6 because $2^5 = 32 < 45 < 64 = 2^6$
- c. 100, suggested as the interval must be larger than $i \geq \frac{570 - 41}{6} = 88.17$
- c. 0
- d.
- | <i>Class</i> | <i>Frequency</i> |
|---------------|------------------|
| 0 up to 100 | 3 |
| 100 up to 200 | 12 |
| 200 up to 300 | 16 |
| 300 up to 400 | 10 |
| 400 up to 500 | 3 |
| 500 up to 600 | <u>1</u> |
| Total | 45 |
- (LO2-3)**

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31. a. 6 because $2^5 = 32 < 45 < 64 = 2^6$.
 b. The interval width should be at least 1.5 as $i \geq (10-1)/6$. Use 2 for convenience.
 c. 0
 d.

Class	Frequency
0 up to 2	1
2 up to 4	5
4 up to 6	12
6 up to 8	17
8 up to 10	8
10 up to 12	2
Total	45

- e. The distribution is fairly symmetric or “bell-shaped” with most of the observations occurring in the middle two classes of 4 up to 8. **(LO2-3)**

32. a. 6 because $2^5 = 32 < 36 < 64 = 2^6$.
 b. The interval width should be at least 2 as $i \geq (15-3)/6$. Use 2.2 for convenience and to ensure there are only 6 classes
 c. 2.2
 d.

Class	Frequency
2.2 up to 4.4	2
4.4 up to 6.6	7
6.6 up to 8.8	11
8.8 up to 11.0	7
11.0 up to 13.2	7
13.2 up to 15.4	2
Total	36

- e. The distribution is fairly symmetric or “bell-shaped” with a peak in the middle class of 6.6 up to 8.8. **(LO2-3)**

33.

Number of Calls	Frequency
4-15	9
16-27	4
28-39	6
40-51	1
Grand Total	20

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This distribution is positively skewed with a “tail” to the right. Based on the data, thirteen of the customers required between 4 and 27 attempts before actually talking with a person. Seven customers required more. **(LO2-3)**

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34. a. $2^5 = 32 < 33 < 64 = 2^6$. Thus 6 classes are recommended.
 b. The interval width should be at least 1253 as $i \geq (7829-312)/6$. Use 1500 for convenience.
 c. 0
 d.

Class	Frequency
0 up to 1500	1
1500 up to 3000	2
3000 up to 4500	0
4500 up to 6000	7
6000 up to 7500	20
7500 up to 9000	3
Total	33

- e. This distribution is negatively skewed with a few very small values which likely correspond to the “start up” phase of this publication. The crest of the distribution is in the 6000 up to 7500 class which contains the greater part or 20 of the 33 months. **(LO2-3)**

35. a. 56
 b. 10 (found by $60 - 50$)
 c. 55
 d. 17 **(LO2-4)**

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36. a. Cumulative frequency polygon
 b. 250
 c. 50 (found by $100 - 50$)
 d. \$240,000
 e. \$230,000 **(LO2-4)**

37. a. $2^5 = 32 < 33 < 64 = 2^6$. Thus 6 classes are recommended.
 The minimum class interval size would be \$30.50 as $i \geq (265 - 82)/6$ thus an interval of 35 would work.

b.

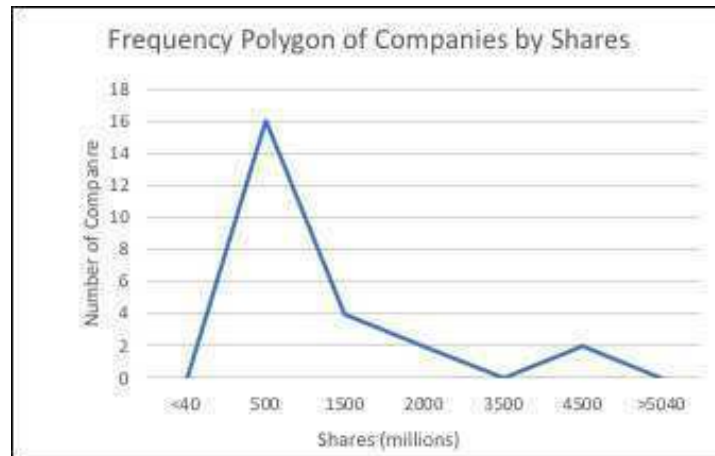
Class	Frequency
\$70 up to \$105	4
105 up to 140	17
140 up to 175	14
175 up to 210	2
210 up to 245	6
245 up to 280	1
Total	44

- d. Based on the frequency distribution the purchases ranged from a low of about \$70 to a high of about \$280. The concentration is in the \$105 up to \$175 classes. **(LO2-3)**

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

38. a. $2^4 = 16 < 24 < 32 = 2^5$. Thus 5 classes are recommended. Class interval is at least 958 (rounded 957.47) as $i \geq (4830 - 42.67)/5$. A suggested interval width would be 1000.

Shares (millions)	Number of Companies
40-1040	16
1040-2040	4
2040-3040	2
3040-4040	0
4040-5040	2
Grand Total	24

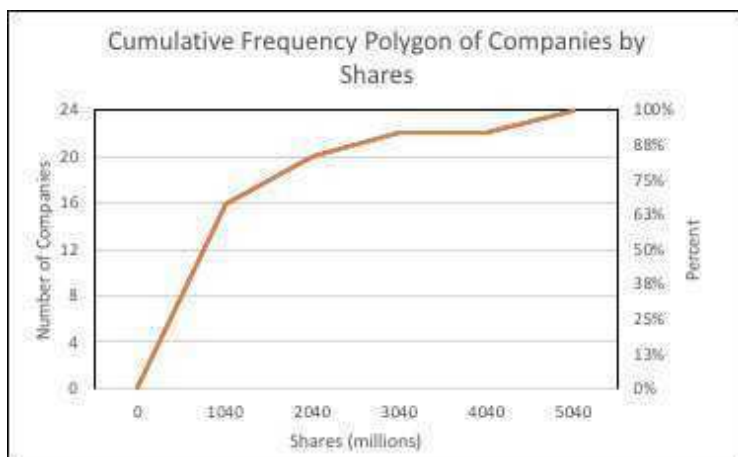


b.

c.

Shares (millions)	Number of Companies
up to 1040	16
up to 2040	20
up to 3040	22
up to 4040	22
up to 5050	24
Grand Total	

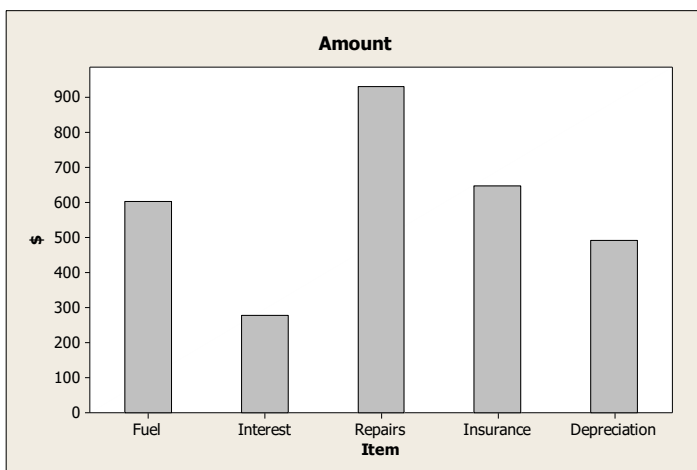
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d.

- e. About 2 billion shares are outstanding for the lowest 75% of the companies. This is found by drawing a line to the curve from 75% and reading off the value on the X-axis.
- f. The number of outstanding shares range from 500 million to over 4 billion, with the largest number of companies (16 of 24) having less than 500 million outstanding shares. Only 2 companies have more than 3.500 billion shares. (LO2-4)

39. This data is qualitative and can be represented with either a bar chart or a pie chart. Bar charts are preferred when the goal is to compare the actual amount in each category. (LO2-2)

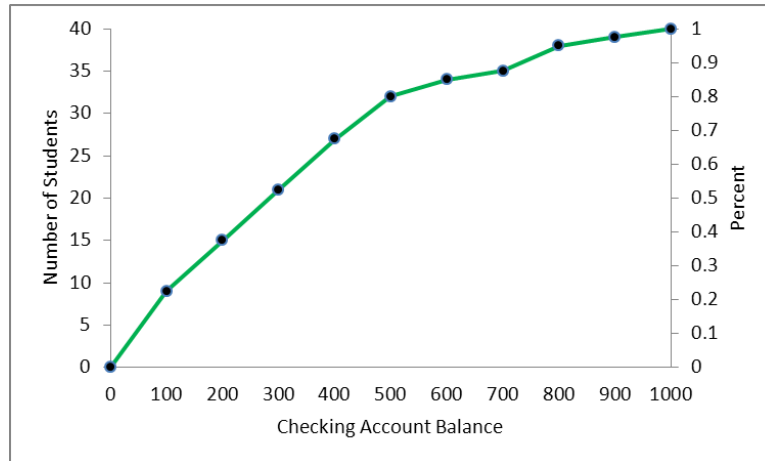


40. a.
- | Balance | f | CF |
|---------------|-----|------|
| 0 up to 100 | 9 | 9 |
| 100 up to 200 | 6 | 15 |
| 200 up to 300 | 6 | 21 |
| 300 up to 400 | 6 | 27 |
| 400 up to 500 | 5 | 32 |
| 500 up to 600 | 2 | 34 |
| 600 up to 700 | 1 | 35 |

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

700 up to 800	3	38
800 up to 900	1	39
900 up to 1000	<u>1</u>	40
Total	40	

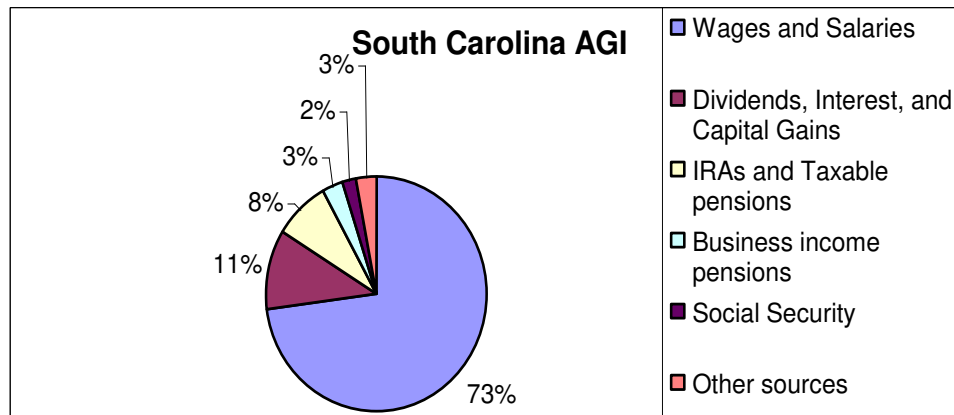
Probably a class interval of \$200 would be better.



- b. Based on the cumulative frequency polygon it appears that about 67% have less than a \$400 balance. Therefore, about 33% would be considered “preferred.”
- c. Less than \$100 would be a convenient cutoff point. (LO2-3)

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41.



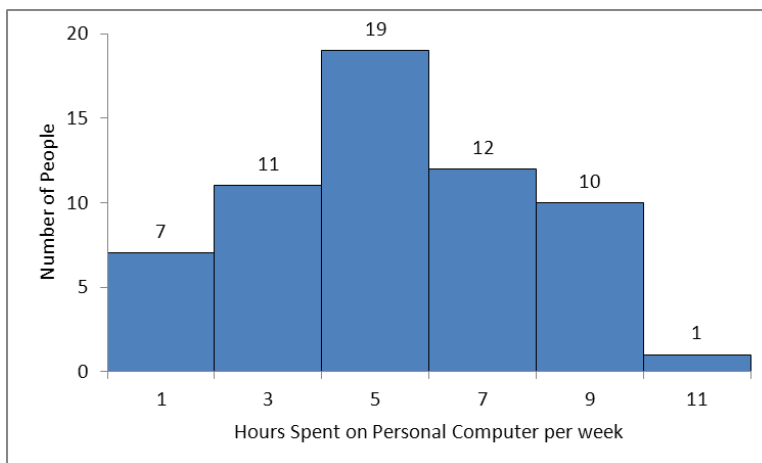
By far the largest part, nearly three-fourths of adjustable gross income in South Carolina is from wages and salaries. Dividends and IRAs each contribute roughly another ten percent to AGI with eight percent coming from business income pensions, social security, and other sources. (LO2-2)

42. a. Since $2^5 = 32 < 60 < 64 = 2^6$, 6 classes are recommended. The interval should be at least as $i \geq (10.1 - 0.4)/6 = 1.6$, with 2 being a convenient value.

<i>Hours Spent on Personal Computer (per week)</i>	<i>Number of Individuals</i>
0 up to 2	7
2 up to 4	11

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

4 up to 6	19
6 up to 8	12
8 up to 10	10
10 up to 12	1
Total	60



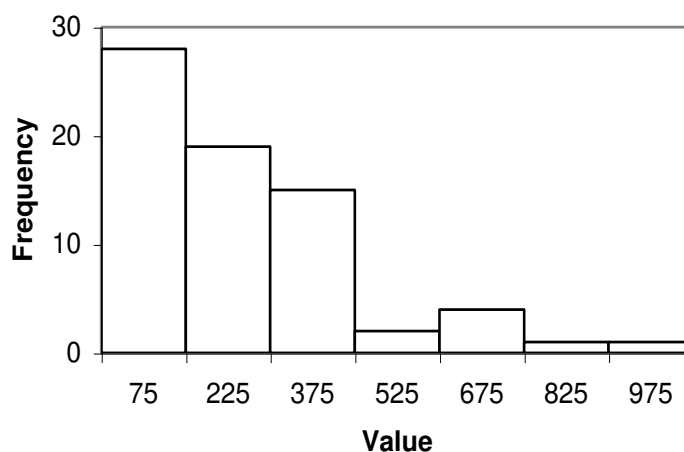
b.

The “typical” person used the computer about 5 hours per week and everyone is within about five hours of that amount. **(LO2-4)**

43. a. Since $2^6 = 64 < 70 < 128 = 2^7$, 7 classes are recommended. The interval should be at least $(1002.2 - 3.3)/7 = 142.7$ use 150 as a convenient value. **(LO2-4)**

- b. Based on the histogram, the majority of people has less than \$500,000 in their investment portfolio and may not have enough money for retirement. Merrill Lynch financial advisors need to promote the importance of investing for retirement in this age group.

b.



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44. a. For every company, divide Sales by Units to get the average annual sales per unit for each company.
- b. Since $2^6 = 64 < 100 < 128 = 2^7$, 7 classes are recommended. The interval should be at least $(13,545 - 20)/7 = 1935$; use 1,950 as a convenient value. Set the lower limit of the first class to be zero.

Sales (\$ Millions)	Frequency
0-1950	96
1950-3900	1
3900-5850	1
5850-7800	0
7800-9750	0
9750-11700	0
11700-13650	2
Total	100

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

- c. Since $2^6 = 64 < 100 < 128 = 2^7$, 7 classes are recommended. The interval should be at least $(3.571 - 0.037)/7 = 0.505$ use 0.5 (\$500,000 as a convenient value. Set the lower limit of the first class to be zero.

Unit Sales \$ millions	Frequency
0-0.5	10
0.5-1	40
1-1.5	24
1.5-2	12
2-2.5	8
2.5-3	3
3-3.5	2
3.5-4	1
Grand Total	100

- d. Based on total sales, the pizza market is dominated by Pizza Hut and Dominoes. Both companies exceed \$12 billion in sales. They also have the most units, i.e. number of stores. So, another way to look at sales is by average sales per store or unit. Note that this distribution is quite different. Most stores (86) of the companies sell between

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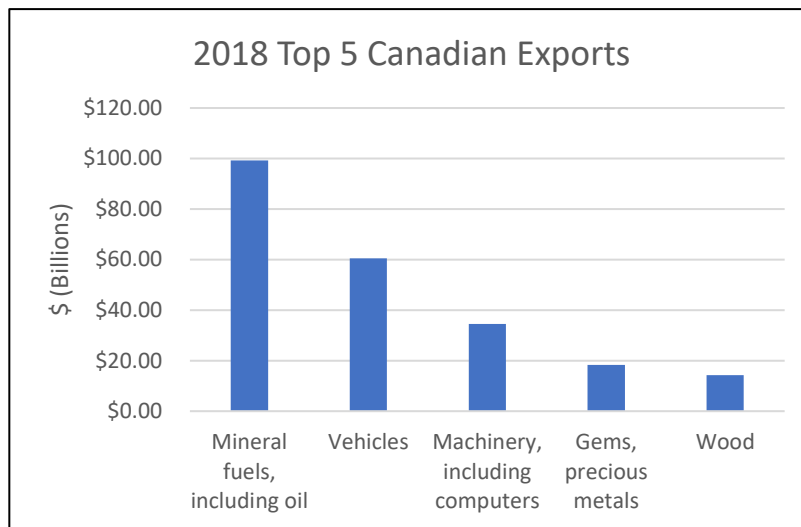
\$0.0 and \$2 million per unit. Pizza Hut and Domino's are in the group with between 0.5 and 1.0 million dollars in per unit sales.

45. a. pie chart
b. 700, found by $0.70(1000)$
c. Yes, ninety percent are either through networking and connections (70%) or posting websites (20%). **(LO2-2)**

job

46. a. 87.88%, found by $44.54\% + 43.34\%$
b. Corporate taxes (8.31%) are more than license fees (2.9%)
c. 2.81 billion, found by $(0.4454)(6.3)$, in sales taxes and 2.73 billion, found by $(0.4334)(6.3)$, in individual taxes **(LO2-2)**

47. a.



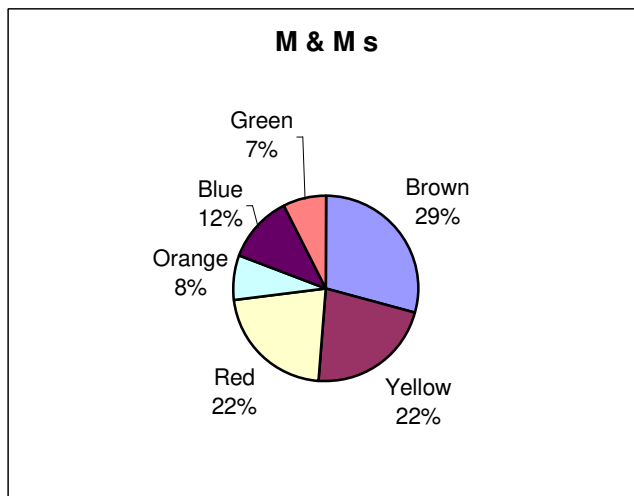
- b. 35.5%, found by $(99.30 + 60.5)/450.7$
c. 70.4% found by $(99.30 + 60.5)/(99.30 + 60.5 + 34.5 + 18.3 + 14.3)$ **(LO2-2)**

48. There are 50 observations, so the recommended number of classes is 6. However, there are several states that have many more farms than the others, so it may be useful to have an open-ended class. One possible frequency distribution is.

Number of Farms	Frequency
0-20	15
20-40	13
40-60	11
60-80	8
80-100	2
>100	1
Grand Total	50

Twenty-eight of the 50 states, or 56 percent, have fewer than 40,000 farms. There is one state that has more than 100,000 farms. **(LO2-3)**

- 49.



Brown, yellow, and red make up almost 75 percent of the candies. The other 25 percent is composed of blue, orange, and green. **(LO2-2)**

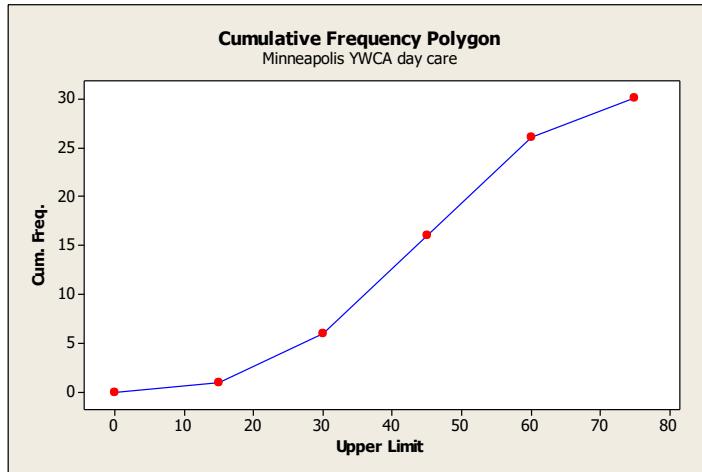
50. a.

Class	Cumulative Frequency
Less than 15	1
Less than 30	6
Less than 45	15
Less than 60	26

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation

Less than 75	30
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b.



- c. 6 days saw fewer than 30.
 d. The highest 80 percent of the days had at least 30 families. **(LO2-3)**

51. There are many choices and possibilities here. For example you could choose to start the first class at 160,000 rather than 120,000. The choice is yours!

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$i \geq (919,480 - 167,962) / 7 = 107,360$. Use intervals of 120,000

<i>Selling Price (000)</i>	<i>Frequency</i>	<i>Cumulative Frequency</i>
120 up to 240	26	26
240 up to 360	36	62
360 up to 480	27	89
480 up to 600	7	96
600 up to 720	4	100
720 up to 840	2	102
840 up to 960	1	105

- a. Most homes (60%) sell between \$240,000 and \$480,000.
 b. The typical price in the first class is \$180,000 and in the last class it is \$900,000
 c.

Chapter 02 - Describing Data: Frequency Tables, Frequency Distributions, and Graphic Presentation



Fifty percent (about 52) of the homes sold for about \$320,000 or less.
 The top ten percent (about 90) of homes sold for at least \$520,000
 About 41 (about 41) percent of the homes sold for less than \$300,000.



d.

2,3 and 4 bedroom houses are most common with about 25 houses each. 7 and 8 bedroom houses are rather rare. (LO2-3)

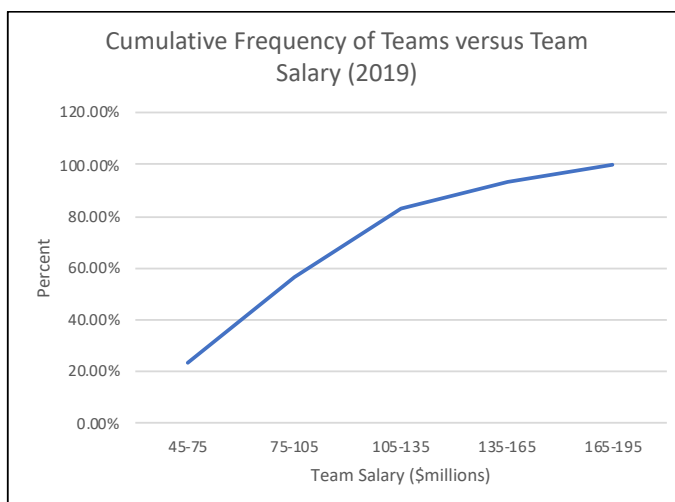
52.

Row Labels	Count of Team Salary
45-75	7
75-105	10
105-135	8
135-165	3
165-195	2
Grand Total	30

- a. Based on the frequency distribution, the typical team salary is between \$45 and \$135 million. The overall range of salaries is based on the minimum of \$45 million and a maximum of \$195. The range of salaries would be \$150 million.
- b. The distribution of salaries is skewed to the right. There are two teams that are much higher than the 28 teams that make up most of the distribution of salary.

c.

Row Labels	Cumulative Frequency
45-75	23.33%
75-105	56.67%
105-135	83.33%
135-165	93.33%
165-195	100.00%
Grand Total	

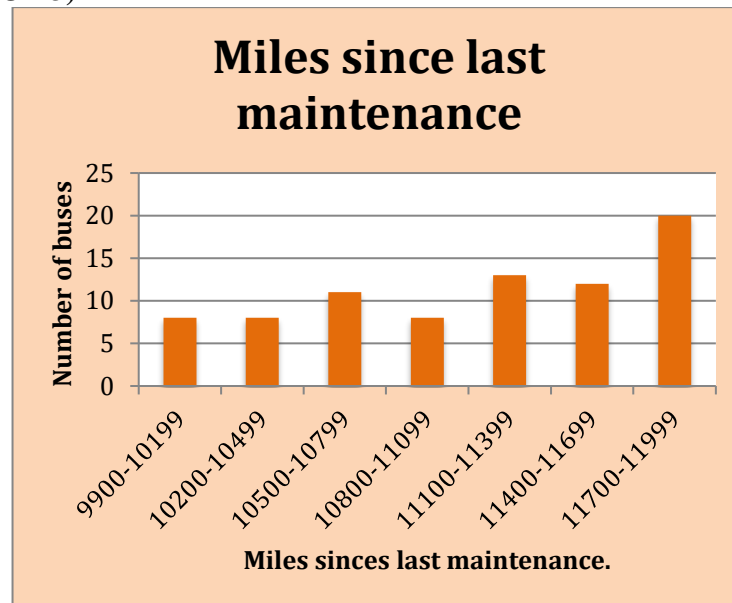


Based on the cumulative frequency distribution, we can estimate that 40% of the teams have a salary of about \$90 million or less. Using the table and the distribution, about 6.67% of the 30 teams have a salary of \$165 million or more. 6.67% of 30 teams rounds to 2 teams. (LO2-3)

53. Since $2^6 = 64 < 80 < 128 = 2^7$, use 7 classes. The interval should be at least $(11973 - 10000)/7 = 281$ miles. Use 300. The resulting frequency distribution is:

Class	<i>f</i>
9900 up to 10200	8
10200 up to 10500	8
10500 up to 10800	11
10800 up to 11100	8
11110 up to 11400	13
11400 up to 11700	12
11700 up to 12000	20

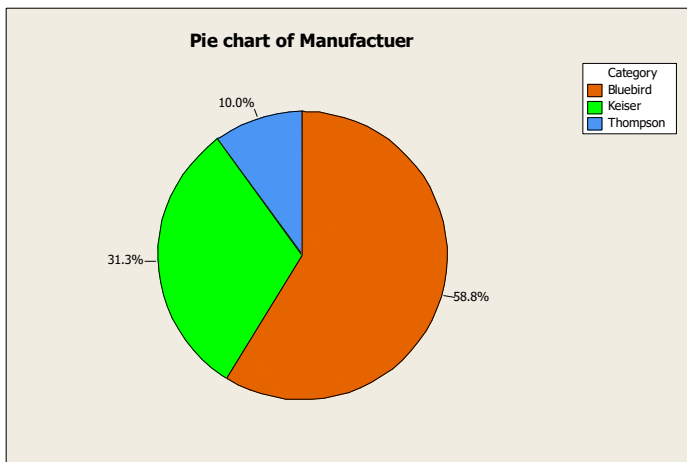
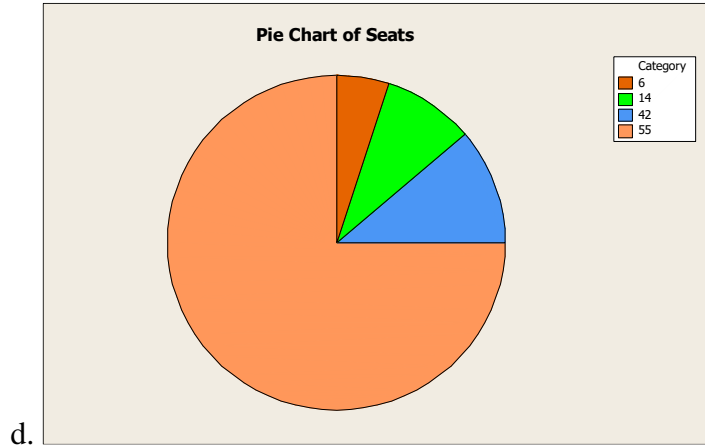
- a. The typical amount driven, or the middle of the distribution is about 11100 miles. Based on the frequency distribution, the range is from 9900 up to 12000 miles. (LO2-3)



- b. The distribution is somewhat “skewed” with a longer “tail” to the left and no outliers. (LO2-3)
- c.

Forty percent of the buses were driven fewer than 11000 miles.

Sixteen (16) busses were driven less than 10500 miles. **(LO2-3)**



The first diagram shows that nearly three fourths of the buses have 55 seats. The second chart shows that Bluebird makes about 60 percent of the busses and Thompson only about 10 percent. **(LO2-2)**