#### Basic Business Statistics 11th Edition Berenson Test Bank

Exam

Name\_\_\_\_\_

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

TABLE 2-5

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative
Time (in Minutes)	Frequency
0 but less than 5	0.37
5 but less than 10	0.22
10 but less than 15	0.15
15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

1) Referring to Table 2-5, what is the cumulative relative frequency for the percentage of calls that1)lasted under 20 minutes?A) 0.59B) 0.84C) 0.76D) 0.10

	-		-		-		
A	Answer: B						
E	xplanation:	A)					
		B)					
		C)					
		D)					

2) You have collected data on the monthly seasonally adjusted civilian unemployment rate for the United States from 1998 to 2007. Which of the following is the best for presenting the data?
 A) a stem-and-leaf display
 B) a side-by-side bar chart

A) a stem-and-leaf display	
C) a contingency table	

D) a time-series plot

2)

Answer: D

Explanation: A) B)

C) D)

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative
Time (in Minutes)	Frequency
0 but less than 5	0.37
5 but less than 10	0.22
10 but less than 15	0.15
15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

3) Referring to Table 2-5, what is the cumulative relative frequency for the percentage of calls that3)Iasted 10 minutes or more?A) 0.16B) 0.90C) 0.24D) 0.41

Answer: D		
Explanation:	A)	
	В)	
	C)	
	D)	

4) You have collected data on the annual average amount of cash rebate offered by 6 different brands
 4) of automobiles sold in the United States in 2006 and 2007. Which of the following is the best for presenting the data?

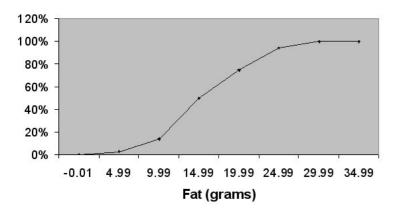
A) a side-by-side bar chartC) a contingency table

B) a time-series plotD) a stem-and-leaf display

Answer: A

Explanation: A) B) C) D)

The figure below is the ogive for the amount of fat (in grams) for a sample of 36 pizzas products where the upper boundaries of the intervals are: 5, 10, 15, 20, 25, and 30.



**Cumulative Percentage Polygon for Fat** 

1411				
A) 62%		B) 81%	C) 44%	D) 14%
Answer: B				
Explanation:	A)			
	B)			
	C)			
	D)			

#### TABLE 2-5

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative
Time (in Minutes)	Frequency
0 but less than 5	0.37
5 but less than 10	0.22
10 but less than 15	0.15
15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

6) Referring to Table 2-5, if 100 calls were randomly sampled, how many calls lasted 15 minutes or
 6) \_\_\_\_\_\_

A) 14		B) 74	C) 26	D) 10
Answer: C				
Explanation:	A)			
	B)			
	C)			
	D)			

7) Referring to Table 2-5, what is the width of each class?						
A) 2%		B) 100%	C) 5 minutes	D) 1 minute		
Answer: C						
Explanation:	A)					
	B)					
	C)					
	D)					

At a meeting of information systems officers for regional offices of a national company, a survey was taken to determine the number of employees the officers supervise in the operation of their departments, where *X* is the number of employees overseen by each information systems officer.

(	f				
	7				
	5				
	11				
	8				
	9				
8	) Referring to Ta A) 11	able 2-2, how many regior B) 5	nal offices are represented in th C) 15	ne survey results? D) 40	8)
		D) 5	5) 15	L/ 40	
	Answer: D	,	,	·	

Explanation: A) B) C) D)

The figure below is the percentage polygon for the amount of calories for a sample of 36 pizzas products where the upper limits of the intervals are: 310, 340, 370, 400 and 430.

Percentage Polygon for Calories



9) Referring to Table 2-16, roughly what percentage of pizza products contains between 400 and 430 9) \_\_\_\_\_\_\_

A) 89%		B) 100%	C) 0%	D) 11%
Answer: D				
Explanation:	A)			
	B)			
	C)			
	D)			

#### TABLE 2-5

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative
Time (in Minutes)	Frequency
0 but less than 5	0.37
5 but less than 10	0.22
10 but less than 15	0.15
15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

10) Referring to Table 2-5, if 100 calls were sampled, \_\_\_\_\_ of them would have lasted less than 5 10) minutes or at least 30 minutes or more.

A) 39		B) 35
C) 37		D) none of the above
Answer: A		
Explanation:	A)	
	В)	
	C)	
	D)	

An insurance company evaluates many numerical variables about a person before deciding on an appropriate rate for automobile insurance. A representative from a local insurance agency selected a random sample of insured drivers and recorded, *X*, the number of claims each made in the last 3 years, with the following results.

$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
3       12         4       5         5       1         11) Referring to Table 2-1, how many total claims are represented in the sample?       11)         A) 50       B) 15       C) 111       D) 250         Answer: C       Explanation:       A)         B)       B)       B)       B)
4       5         5       1         11) Referring to Table 2-1, how many total claims are represented in the sample?       11)         A) 50       B) 15       C) 111       D) 250         Answer: C       Explanation:       A)         B)       B)       B)       B)
5       1         11) Referring to Table 2-1, how many total claims are represented in the sample?       11)         A) 50       B) 15       C) 111       D) 250         Answer: C       Explanation:       A)         B)       B)       B)       B)
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A) 50 B) 15 C) 111 D) 250 Answer: C Explanation: A) B)
Answer: C Explanation: A) B)
Explanation: A) B)
B)
C)
D)
12) Referring to Table 2-1, how many drivers are represented in the sample? 12)
A) 15 B) 5 C) 18 D) 50
Answer: D
Explanation: A)
B)
C)
D)

# TABLE 2-6

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

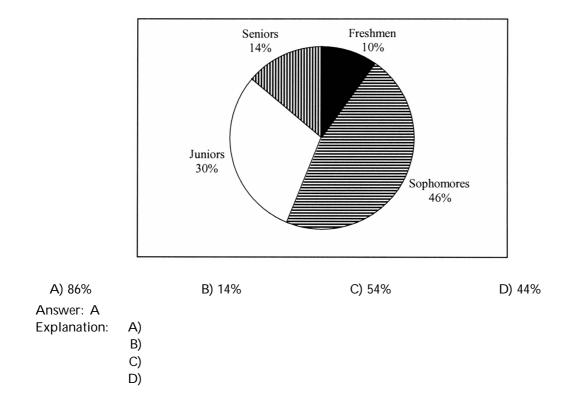
	Did Well in Midterm	Did Poorly in Midterm		
Studying for Exam	80	20		
Went Bar Hopping	30	70		
	2-6, percent o ne midterm and did wel	f the students in the samp I on the midterm.	le went bar hopping the	13)
A) 27.27	B) 15	C) 30	D) 50	
Answer: B				
Explanation: A	)			
B	)			
C				
C)	)			

	•	public university worked in a week were	14)
collected. White	ch of the following is the best chart for	presenting the information?	
<ul> <li>A) a percent</li> </ul>	tage polygon	B) a pie chart	
C) a Pareto	diagram	D) a percentage table	
Answer: A			
Explanation:	A)		
	B)		
	C)		
	D)		
15) When construc	cting charts, the following is plotted at	the class midpoints:	15)
	ge polygons.	B) cumulative relative frequency ogives.	·
	y histograms.	D) all of the above	
Answer: A			
Explanation:	A)		
	B)		
	$\hat{\mathbf{C}}$		

. ..

16)

- C) D)
- 16) A professor of economics at a small Texas university wanted to determine what year in school students were taking his tough economics course. Shown below is a pie chart of the results. What percentage of the class took the course prior to reaching their senior year?



7

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

	Did Well in Midterm	Did Poorly in Midterm		
Studying for Exam	80	20		
Went Bar Hopping	30	70		
	e 2-6, of those who did w pping the weekend befo		ample, percent of	17)
A) 27.27	B) 50	C) 15	D) 30	
Answer: A Explanation: A B C D	)			
		ood representation of the p pulation to spend the week	opulation, we can expect cend studying and do poorly	18)
A) 45	B) 10	C) 20	D) 50	
Answer: B				

# TABLE 2-5

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative				
Time (in Minutes)	Frequency				
0 but less than 5	0.37				
5 but less than 10	0.22				
10 but less than 15	0.15				
15 but less than 20	0.10				
20 but less than 25	0.07				
25 but less than 30	0.07				
30 or more	0.02				
19) Referring to Tab least 15 minutes A) 0.10 Answer: D		5	sampled, C) 16	of them would have lasted at D) 10	19)
Explanation:	A) B) C) D)				

online bill pay A) a stem-a		holds actively using online banking and/or following is the best for presenting the data? B) a time-series plot D) a pie chart	20)
Answer: B			
Explanation:	A)		
	B)		
	C)		
	D)		
21) When studyin	g the simultaneous responses to two ca	tegorical questions, we should set up a	21)
A) frequenc	y distribution table.	B) histogram.	
C) continge	ncy table.	D) cumulative percentage distribution table.	
Answer: C			
Explanation:	A)		
•	B)		
	C)		

D)

# TABLE 2-4

A survey was conducted to determine how people rated the quality of programming available on television. Respondents were asked to rate the overall quality from 0 (no quality at all) to 100 (extremely good quality). The stem-and-leaf display of the data is shown below.

Stem	Leaves
3	24
4	03478999
5	0112345
6	12566
7	01
8	
9	2

22) Referring to Table 2-4, what percentage of the respondents rated overall television quality with a 22) rating between 50 and 75?

A) 40		B) 11	C) 56	D) 44
Answer: C				
Explanation:	A)			
	B)			
	C)			
	D)			

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

Studying for Exa	m 80	20		
Went Bar Hoppir		70		
23) Referring to Tal and did well on		of the students in the sample sp	ent the weekend studying	23)
A) 40	B) 80	C) 72.72	D) 50	
Answer: A Explanation:	A) B) C) D)			
	o interviews. Six different	hat they think is the most comr mistakes were given. Which of		24)
A) a bar char		B) a stem-and-lea	ıf display	
C) a continge		D) a histogram		
Answer: A Explanation:	A) B) C) D)			
A) the vertica	-	ucted, which axis must show th B) the horizontal S D) neither the hor	_	25)
Answer: A				
Explanation:	A)			
·	B)			
	C)			
	D)			
15 refrigerators	. Which of the following is side bar chart	ate retail price (in \$) and the en s the best for presenting the dat B) a pie chart D) a contingency	a?	26)
Answer: C				
Explanation:	A)			
	B)			
	C) D)			

- 27) The width of each bar in a histogram corresponds to the
  - A) percentage of observations in each class.
  - B) midpoint of each class.
  - C) number of observations in each class.
  - D) differences between the boundaries of the class.

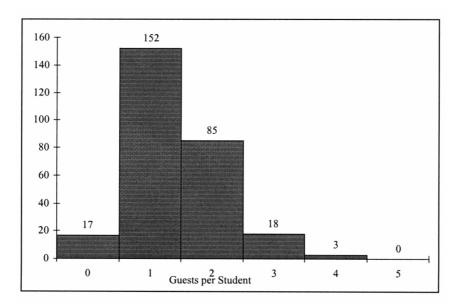
Answer: D

Explanation: A)

- B)
  - C) D)

# TABLE 2-3

Every spring semester, the School of Business coordinates a luncheon with local business leaders for graduating seniors, their families, and their friends. Corporate sponsorship pays for the lunches of each of the seniors, but students have to purchase tickets to cover the cost of lunches served to guests they bring with them. The following histogram represents the attendance at the senior luncheon, where *X* is the number of guests each student invited to the luncheon and *f* is the number of students in each category.



28) Referring to the histogram from Table 2-3, if all the tickets purchased were used, how many guests 28) attended the luncheon?

A) 275 B) 388 C) 4 D) 152 Answer: B Explanation: A) B) The total number of guests is  $\sum_{i=1}^{6} X_i f_i$ C) D)

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15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

D)

## TABLE 2-6

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

	Did Well in Midterm	Did Poorly in Midterm		
Studying for Exar	m 80	20		
Went Bar Hoppir	ng 30	70		
sample,	_ percent of them did we			30)
A) 27.27	B) 55	C) 15	D) 30	
Answer: D Explanation:	A) B) C) D)			
	al bar chart in which the c heir frequencies is called a	<b>e</b>	descending rank order of the	31)
A) dot plot.		B) pie chart.		
C) Pareto dia	gram.	D) contingend	cy table.	
Answer: C Explanation:	A) B) C) D)			

# 32) Data on 1,500 students' height were collected at a larger university in the East Coast. Which of the following is the best chart for presenting the information?

A) a pie chartB) a side-by-side bar chartC) a histogramD) a Pareto diagramAnswer: CExplanation:B)C)

TABLE 2-5

D)

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative				
Time (in Minutes)	Frequency				
0 but less than 5	0.37				
5 but less than 10	0.22				
10 but less than 15	0.15				
15 but less than 20	0.10				
20 but less than 25	0.07				
25 but less than 30	0.07				
30 or more	0.02				
<ul><li>33) Referring to Table minutes?</li><li>A) 185</li></ul>	e 2-5, if 10 c	calls lasted 30 minu B) 500	tes or more, how many C) 295	calls lasted less than 5 D) 10	33)
Answer: A		2) 000	0) = / 0	_,	
Explanation: A	)				
B					
C					
D					
_	/				
34) Referring to Table more.	e 2-5, if 100	calls were sampled	d, of them wo	uld have lasted 20 minutes or	34)
A) 26			B) 74		
C) 16			D) none of the a	bove	
Answer: C					
Explanation: A	)				
B					
C					
D					

# 35) You have collected information on the market share of 5 different search engines used by U.S. Internet users in May 2007. Which of the following is the best for presenting the information?

A) a contingency table

C) a stem-and-leaf display

Answer: D Explanation:

B) C) D)

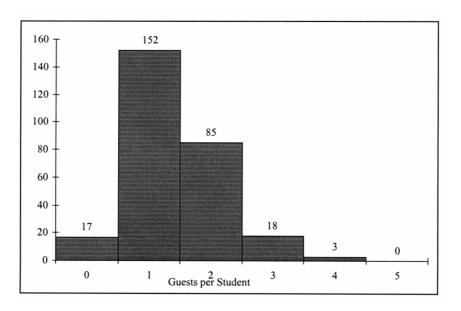
A)

# TABLE 2-3

Every spring semester, the School of Business coordinates a luncheon with local business leaders for graduating seniors, their families, and their friends. Corporate sponsorship pays for the lunches of each of the seniors, but students have to purchase tickets to cover the cost of lunches served to guests they bring with them. The following histogram represents the attendance at the senior luncheon, where *X* is the number of guests each student invited to the luncheon and *f* is the number of students in each category.

B) a histogram

D) a pie chart



36) Referring to the histogram from Table 2-3, how many graduating seniors attended the luncheon?
36)
A) 388
B) 4
C) 275
D) 152

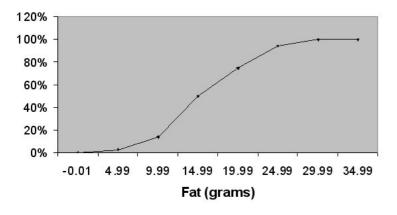
Answer: C
Explanation:

A)
B)
C) The number of graduating seniors is the sum of all the frequencies, *f*.

D)

35)

The figure below is the ogive for the amount of fat (in grams) for a sample of 36 pizzas products where the upper boundaries of the intervals are: 5, 10, 15, 20, 25, and 30.



**Cumulative Percentage Polygon for Fat** 

37) Referring to Table 2-15, roughly what percentage of pizza products contains less than 10 grams of 37) fat?

A) 75%		B) 50%	C) 14%	D) 3%
Answer: C				
Explanation:	A)			
	B)			
	C)			
	D)			

38) You have collected data on the responses to two questions asked in a survey of 40 college students 38) majoring in business - What is your gender (Male = M; Female = F) and What is your major (Accountancy = A; Computer Information Systems = C; Marketing = M). Which of the following is the best for presenting the data? A) a time-series plot B) a Pareto diagram

$\mathbf{A}$ ) a time-series plot	b) at aleto diagraffi
C) a contingency table	D) a stem-and-leaf display
Answer: C	
Explanation: A)	
B)	

- A
- B) C)
  - D)

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Stem	Leaves
3	24
4	03478999
5	0112345
6	12566
7	01
8	
9	2

39) Referring to Table 2-4, what percentage of the respondents rated overall television quality with a<br/>rating of 50 or below?<br/>A) 4439)A) 44B) 40C) 56D) 11

Answer: A				
Explanation:	A)			
	B)			
	C)			
	D)			

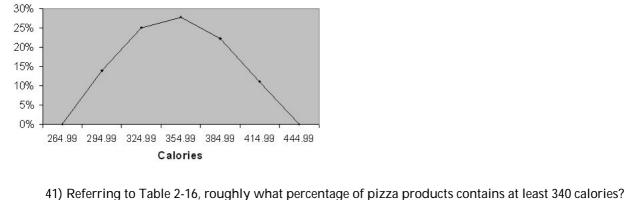
## TABLE 2-6

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

	Did Well in Midterm	Did Poorly in Midterm		
Studying for Exam	80	20		
Nent Bar Hopping	30	70		
•		ood representation of the po veekend studying to do poor	• •	40)
A) 20	B) 45	C) 10	D) 50	
Answer: A				
Explanation: A	<b>(</b> )			
F	3)			
-				
C	2)			

The figure below is the percentage polygon for the amount of calories for a sample of 36 pizzas products where the upper limits of the intervals are: 310, 340, 370, 400 and 430.

Percentage Polygon for Calories



 41) Referring to Table 2-16, roughly what percentage of pizza products contains at least 340 calories?
 41)

 A) 61%
 B) 25%
 C) 39%
 D) 28%

 Answer: A
 Explanation:
 A)

Explanation:	A)
	B)
	C)
	D)

# TABLE 2-6

A sample of 200 students at a Big-Ten university was taken after the midterm to ask them whether they went bar hopping the weekend before the midterm or spent the weekend studying, and whether they did well or poorly on the midterm. The following table contains the result.

	Did Well in Midterm	Did Poorly in Midterm
Studying for Exam	80	20
Went Bar Hopping	30	70

42) Referring to Table 2-	6, if the sample is a goo	d representation of the popu	lation, we can expect	42)
percent of	those who did poorly oi	n the midterm to have spent	the weekend studying.	_
A) 22.22	B) 45	C) 50	D) 10	

R) 22.22	
Answer: A	
Explanation:	A)
	B)
	C)
	D)

# 43) You have collected information on the consumption by the 15 largest coffee-consuming nations.

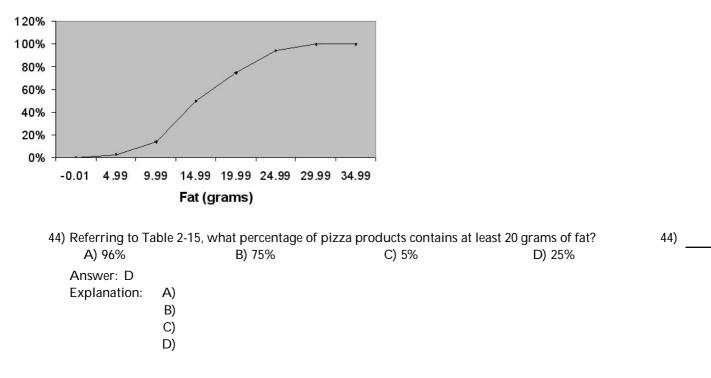
43)

Which of the following is the best for presenting the share of the consumption?A) a side-by-side bar chartB) a contingency table

C) a pie cha	rt D) a Pareto diagram
Answer: D	
Explanation:	A)
	B)
	C)
	D) NOTE: Even though a pie chart can also be used, the Pareto diagram is preferable for separating the "vital few" from the "trivial many."

# **TABLE 2-15**

The figure below is the ogive for the amount of fat (in grams) for a sample of 36 pizzas products where the upper boundaries of the intervals are: 5, 10, 15, 20, 25, and 30.



# Cumulative Percentage Polygon for Fat

A survey was conducted to determine how people rated the quality of programming available on television. Respondents were asked to rate the overall quality from 0 (no quality at all) to 100 (extremely good quality). The stem-and-leaf display of the data is shown below.

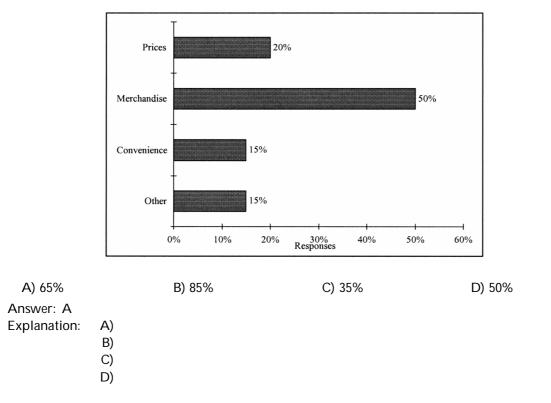
Stem	Leaves
3	24
4	03478999
5	0112345
6	12566
7	01
8	
9	2

45) Referring to Table 2-4, what percentage of the respondents rated overall television quality with a 45) rating of 80 or above?

A) 0		B) 96	C) 100	D) 4
Answer: D				
Explanation:	A)			
	B)			
	C)			
	D)			

46) Retailers are always interested in determining why a customer selected their store to make a purchase. A sporting goods retailer conducted a customer survey to determine why its customers shopped at the store. The results are shown in the bar chart below. What proportion of the customers responded that they shopped at the store because of the merchandise or the convenience?

46) \_\_\_\_\_

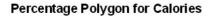


At a meeting of information systems officers for regional offices of a national company, a survey was taken to determine the number of employees the officers supervise in the operation of their departments, where *X* is the number of employees overseen by each information systems officer.

X	f				
1	7				
2	5				
3	11				
4	8				
5	9				
47	<ul> <li>Referring to Table</li> <li>by those surve</li> <li>A) 200</li> <li>Answer: D</li> <li>Explanation:</li> </ul>	ss all of the regional office B) 40	es, how many total emplo C) 15	oyees were supervised 47) D) 127	)



The figure below is the percentage polygon for the amount of calories for a sample of 36 pizzas products where the upper limits of the intervals are: 310, 340, 370, 400 and 430.





<b>A)</b> 50%		B) 28%	C) 25%	D) 22%
Answer: A				
Explanation:	A)			
	B)			
	C)			
	D)			

49) In a contingency table, the number of row	is and columns	49)
A) must add to 100%.	B) must always be 2.	
C) must always be the same.	D) none of the above	
Answer: D		
Explanation: A)		
B)		
C)		
D)		
•	arket share of 5 different search engines used by U.S. following is the best for presenting the information? B) a pie chart D) a contingency table	50)
Answer: B		
Explanation: A)		
B)		
C)		
D)		

The following are the durations in minutes of a sample of long-distance phone calls made within the continental United States reported by one long-distance carrier.

	Relative
Time (in Minutes)	Frequency
0 but less than 5	0.37
5 but less than 10	0.22
10 but less than 15	0.15
15 but less than 20	0.10
20 but less than 25	0.07
25 but less than 30	0.07
30 or more	0.02

51) Referring to Table 2-5, if 100 calls were sampled, \_\_\_\_\_ of them would have lasted less than 15 51) \_\_\_\_\_

minutes.			
A) 10			B) 26
C) 74			D) none of the above
Answer: C			
Explanation:	A)		
	B)		
	C)		
	D)		

# 52) Data on the number of credit hours of 20,000 students at a public university enrolled in a Spring semester were collected. Which of the following is the best for presenting the information?

A) a pie chart B) a contingency table C) a Pareto diagram D) a stem-and-leaf display Answer: D Explanation: A) B) C) D)

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

# **TABLE 2-17**

The following table presents total retail sales in millions of dollars for the leading apparel companies during April 2001 and April 2002.

Apparel Company	April 01	April 02
Gap	1,159.00	962
XLT	781.7	899
Limited	596.5	620.4
Kohl's	544.9	678.9
Nordstrom	402.6	418.3
Talbots	139.9	130.1
AnnTaylor	114.2	124.8

53) Referring to Table 2-17, construct a table of column percentages.

Answer:

Apparel Company	April 2001	April 2002
Gap	31.00%	25.09%
XLT	20.91%	23.45%
Limited	15.95%	16.18%
Kohl's	14.57%	17.71%
Nordstrom	10.77%	10.91%
Talbots	3.74%	3.39%
AnnTaylor	3.05%	3.26%
Total	100.00%	100.00%

Explanation:

53)

52)

The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defects

1 2 4 4 5 5 6 7 9 9 12 12 15 17 20 21 23 23 25 26 27 27 28 29 29

54) Referring to Table 2-11, if a frequency distribution for the defects data is constructed, using 54) "0 but less than 5" as the first class, the relative frequency of the "15 but less than 20" class would be \_\_\_\_\_\_.

Answer: 0.08 or 8% or 2/25 Explanation:

#### **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

55) Referring to Table 2-12, of the females in the sample, \_\_\_\_\_ percent were either neutral 55) \_\_\_\_\_ or against the plan.

Answer: 63.46% or (51.92+11.54)% Explanation:

# TABLE 2-9

The frequency distribution below represents the rents of 250 randomly selected federally subsidized apartments in Minneapolis.

Rent in \$	Frequency
300 but less than 400	113
400 but less than 500	85
500 but less than 600	32
600 but less than 700	16
700 but less than 800	4

56) Referring to Table 2-9, \_\_\_\_\_ percent of the apartments rented for at least \$500.

56)

Answer: 20.8% or 52/250 Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

57) Referring to Table 2-12, percent of the 200 were males who were not against the	57)
plan.	
Answer: 24%	
Explanation:	
58) It is essential that each class grouping or interval in a frequency distribution be	58)
Answer: non-overlapping and of equal width	
Explanation:	
59) When comparing two or more large batches of numerical data, the distributions being	59)
developed should use the same	
Answer: class boundaries	
Explanation:	

# **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

60) Referring to Table 2-14,	percent of the 600 were females who owned a portable	60)	
DVD.			

Answer: 6.67% Explanation:

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

61) Referring to Table 2-7, if a frequency distribution with equal sized classes was made from this data, and the first class was "10 but less than 20," the frequency of that class would be

61) \_\_\_\_\_

Answer: 9 Explanation:

# **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

62) Referring to Table 2-14, of the males in the sample, \_\_\_\_\_ percent owned a portable
62) \_\_\_\_\_
62) \_\_\_\_\_
62) \_\_\_\_\_
62) \_\_\_\_\_

Explanation:

63) Referring to Table 2-14, \_\_\_\_\_ percent of the 600 owned a portable DVD. 63) \_\_\_\_\_

Answer: 22.67% Explanation:

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

64) Referring to Table 2-13, if a relative frequency or percentage distribution for the detergent data is constructed, using "9.0 but less than 10.0 gallons" as the first class, what percentage of drive-through car wash operations use at least 10 gallons of detergent in a month?
Answer: 88%
Explanation:

TABLE 2-12

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

65) Referring to Table 2-12, of those for the plan in the sample, \_\_\_\_\_ percent were females. 65)

Answer: 76% Explanation:

#### **TABLE 2-11**

The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defe	cts											
1	2	4	4	5	5	6	7	9	9	12	12	15
17	20	21	23	23	25	26	27	27	28	29	29	

66) Referring to Table 2-11, construct a relative frequency or percentage distribution for the defects data, using "0 but less than 5" as the first class.

66) \_\_\_\_\_

64)

Defects	Percentage
0 but less than 5	16
5 but less than 10	24
10 but less than 15	8
15 but less than 20	8
20 but less than 25	16
25 but less than 30	28

Explanation:

Answer:

67) The width of each class grouping or interval in a frequency distribution should be

Answer: the same or equal Explanation:

# **TABLE 2-13**

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

68) Referring to Table 2-13, if a relative frequency or percentage distribution for the detergent data is constructed, using "9.0 but less than 10.0 gallons" as the first class, what percentage of drive-through car wash operations use at least 10 gallons but less than 13 gallons of detergent in a month?

68)

Answer: 80% Explanation:

#### TABLE 2-8

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

69) Referring to Table 2-8, if a frequency distribution with equal sized classes was made from this data, and the first class was "0 but less than 10," the relative frequency of the last class would be \_\_\_\_\_\_.

69)

Answer: 4% or 0.04 or 4/100 Explanation:

The following table presents total retail sales in millions of dollars for the leading apparel companies during April 2001 and April 2002.

Apparel Company	April 01	April 02
Gap	1,159.00	962
XLT	781.7	899
Limited	596.5	620.4
Kohl's	544.9	678.9
Nordstrom	402.6	418.3
Talbots	139.9	130.1
AnnTaylor	114.2	124.8

70) \_\_\_\_\_

70) Referring to Table 2-17, among the 8 stores, \_\_\_\_\_ saw a sales decline.Answer: Gap and TalbotsExplanation:

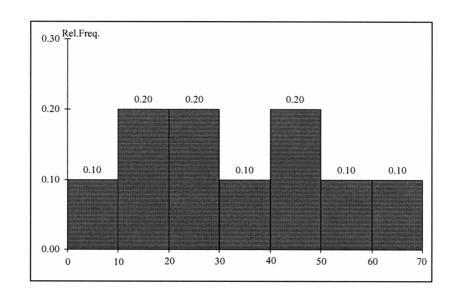
#### TABLE 2-14

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

71) Referring to Table 2-14, of those who did not own a portable DVD in the sample, \_\_\_\_\_ 71) \_\_\_\_\_

Answer: 48.28% Explanation:



The histogram below represents scores achieved by 200 job applicants on a personality profile.

72) Referring to the histogram from Table 2-10, \_\_\_\_\_ percent of the applicants scored below 20 or at least 50.

72)

Answer: 50% Explanation:

# **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

73) Referring to Table 2-14, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the population will own a portable DVD.

73)

Answer: 22.67% Explanation:

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

74) Referring to Table 2-8, the person who visited the health club more than anyone else in the 74) \_\_\_\_\_\_ sample visited the facility \_\_\_\_\_\_ times.

Answer: 97 Explanation:

# **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

75) Referring to Table 2-12, construct a table of total percentages.

Answer:

	For	Neutral	Against	Totals
Female	19.00	27.00	6.00	52.00
Male	6.00	18.00	24.00	48.00
Total	25.00	45.00	30.00	100.00

Explanation:

75)

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portabl	е			
DVD Player	Male	Female		
Yes	96	40		
No	224	240		
6) Referring to Answer: 77.3 Explanation:	33%	l,	percent of the 600 did not owned a portable DVD.	76)
	-	-	tch of numerical data to another, a(n) rom the frequency distribution.	77)
Answer: rela Explanation:	tive frequ	iency or pe	ercentage	

#### TABLE 2-8

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

78) Referring to Table 2-8, if a frequency distribution with equal sized classes was made from this data, and the first class was "0 but less than 10," the frequency of the fifth class would be \_\_\_\_\_.

78) \_\_\_\_\_

Answer: 9 Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

79) Referring to Table 2-12, \_\_\_\_\_ percent of the 200 were males.

Answer: 48% Explanation:

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

80) Referring to Table 2-14, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the females in the population will not own a portable DVD.

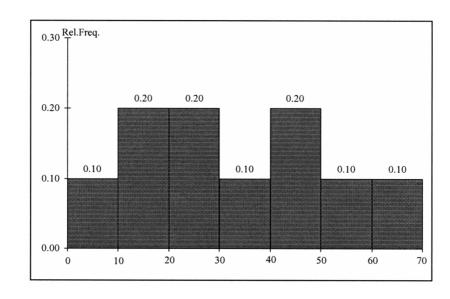
80)

Answer: 85.71% Explanation:

81) Referring to Table 2-14, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the males in the population will own a portable DVD.

81) \_\_\_\_\_

Answer: 30% Explanation: 79)



The histogram below represents scores achieved by 200 job applicants on a personality profile.

 Referring to the histogram from Table 2-10, \_\_\_\_\_ percent of the job applicants scored below 50.

82)

Answer: 80% Explanation:

# **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

83) Referring to Table 2-12, construct a table of column percentages.

Answer:

	For	Neutral	Against	Totals
Female	76.00	60.00	20.00	52.00
Male	24.00	40.00	80.00	48.00
Total	100.00	100.00	100.00	100.00

Explanation:

84) Referring to Table 2-12, \_\_\_\_\_ percent of the 200 were not neutral.

Answer: 55% Explanation: 83)

84)

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

86) Referring to Table 2-14, \_\_\_\_\_ percent of the 600 were males who owned a portable 86) \_\_\_\_\_\_
 DVD.

Answer: 16% Explanation:

87) Referring to Table 2-14, of the females in the sample, \_\_\_\_\_ percent did not own a 87) \_\_\_\_\_\_ portable DVD.

Answer: 85.71% Explanation:

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

88) Referring to Table 2-8, the person who visited the health club less than anyone else in the sample visited the facility \_\_\_\_\_\_ times.
 88) \_\_\_\_\_\_

Answer: 0 or no Explanation:

#### TABLE 2-9

The frequency distribution below represents the rents of 250 randomly selected federally subsidized apartments in Minneapolis.

Rent in \$	Frequency
300 but less than 400	113
400 but less than 500	85
500 but less than 600	32
600 but less than 700	16
700 but less than 800	4

89) Referring to Table 2-9, the percentage of apartments renting for less than \$600 is \_\_\_\_\_. 89)

Answer: 230/250 or 23/25 or 92% or 0.92 Explanation:

90) Referring to Table 2-9, the relative frequency of the second class is \_\_\_\_\_\_.

90)

Answer: 85/250 or 17/50 or 34% or 0.34 Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

91) Referring to Table 2-12, of the males in the sample, \_\_\_\_\_ percent were for the plan.Answer: 12.50%Explanation:

91)

# **TABLE 2-10**

0.30 Rel.Freq. 0.20 0.20 0.20 0.20 0.10 0.10 0.10 0.10 0.10 0.00 10 20 30 40 50 60 70 0

The histogram below represents scores achieved by 200 job applicants on a personality profile.

92) Referring to the histogram from Table 2-10, \_\_\_\_\_ percent of the job applicants scored between 10 and 20.

92)

Answer: 20% Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

### 93) Referring to Table 2-12, \_\_\_\_\_ percent of the 200 were males who were neutral. 93)

Answer: 18% Explanation:

94) Referring to Table 2-12, construct a table of row percentages.

Answer:

	For	Neutral	Against	Totals
Female	36.54	51.92	11.54	100.00
Male	12.50	37.50	50.00	100.00
Totals	25.00	45.00	30.00	100.00

Explanation:

95) To evaluate two categorical variables at the same time, a(n) \_\_\_\_\_ could be developed.
 95) \_\_\_\_\_
 Answer: contingency or cross-classification table or side-by-side bar chart
 Explanation:

#### TABLE 2-9

The frequency distribution below represents the rents of 250 randomly selected federally subsidized apartments in Minneapolis.

Rent in \$	Frequency
300 but less than 400	113
400 but less than 500	85
500 but less than 600	32
600 but less than 700	16
700 but less than 800	4

Answer: 117 Explanation:

96) Referring to Table 2-9, \_\_\_\_\_ apartments rented for at least \$400 but less than \$600.

96)

94)

37

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

97) Referring to Table 2-14, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of those who own a portable DVD in the population will be males. Answer: 70.59%

Explanation:

#### **TABLE 2-13**

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

98) Referring to Table 2-13, if a percentage histogram for the detergent data is constructed, using "9.0 but less than 10.0 gallons" as the first class, what percentage of drive-through car wash operations use less than 12 gallons of detergent in a month?
Answer: 68%
Explanation:

#### TABLE 2-12

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

99) Referring to Table 2-12, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the population will be for the plant.

99)

97)

98)

Answer: 25% Explanation:

100) A(n) \_\_\_\_\_\_ is a summary table in which numerical data are tallied into class intervals or 100) categories.

Answer: frequency distribution Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

## 101) Referring to Table 2-12, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the males in the population will be against the plan.

101)

Answer: 50% Explanation:

#### **TABLE 2-10**

0.30 Rel.Freq 0.20 0.20 0.20 0.20 0.10 0.10 0.10 0.10 0.10 0.00 20 30 . 40 10 50 60 0 70

The histogram below represents scores achieved by 200 job applicants on a personality profile.



102)

to \_\_\_\_\_. Answer: 10 Explanation:

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

103) Referring to Table 2-14, construct a table of column percentages.

Answer:

Own	Male	Female	Total
Yes	30.00%	14.29%	22.67%
No	70.00%	85.71%	77.33%
Total	100.00%	100.00%	100.00%

Explanation:

104) Relationships in a contingency table can be examined more fully if the frequencies are converted into \_\_\_\_\_\_.

104)

Answer: percentages or proportions Explanation:

#### TABLE 2-7

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

105) Referring to Table 2-7, \_\_\_\_\_ percent of the cases were not adjudicated within the first 4 105) \_\_\_\_\_ years.

Answer: 20 Explanation: 103)

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

## 106) Referring to Table 2-12, \_\_\_\_\_ percent of the 200 were females who were against the plan.

106) \_\_\_\_\_

Answer: 6% Explanation:

#### TABLE 2-8

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

107) Referring to Table 2-8, if a frequency distribution with equal sized classes was made from this data, and the first class was "0 but less than 10," the cumulative percentage of the next-to-last class would be \_\_\_\_\_\_.

107)

Answer: 96% or 0.96 or 96/100 Explanation:

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

# 108) Referring to Table 2-13, construct a cumulative percentage distribution for the detergent data if the corresponding frequency distribution uses "9.0 but less than 10.0" as the first class.

108)

Answer:

Gasoline	Frequency	Percentage
Purchases (gals)	Less Than	Less Than
9.0 but less than 10.0	3	12
10.0 but less than 11.0	8	32
11.0 but less than 12.0	17	68
12.0 but less than 13.0	23	92
13.0 but less than 14.0	25	100

#### Explanation:

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

109) Referring to Table 2-14, construct a table of total percentages.

Answer:

Own	Male	Female	Total
Yes	16.00%	6.67%	22.67%
No	37.33%	40.00%	77.33%
Total	53.33%	46.67%	100.00%

Explanation:

109) \_\_\_\_\_

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

Note: 1L means the "low teens" - 10, 11, 12, 13, or 14; 1H means the "high teens" - 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

110) Referring to Table 2-7, the civil suit with the longest wait between when the suit was filed 110) and when it was adjudicated had a wait of \_\_\_\_\_ months. Answer: 68 Explanation:

**TABLE 2-13** 

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

111) Referring to Table 2-13, construct a frequency distribution for the detergent data, using "9.0 111) but less than 10.0 gallons" as the first class.

Answer:

Purchases (gals)	Frequency
9.0 but less than 10.0	3
10.0 but less than 11.0	5
11.0 but less than 12.0	9
12.0 but less than 13.0	6
13.0 but less than 14.0	2

Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

112) Referring to Table 2-12, \_\_\_\_\_ percent of the 200 were against the plan.

Answer: 30% Explanation:

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

 113) Referring to Table 2-14, of those who owned a portable DVD in the sample, \_\_\_\_\_\_
 113) \_\_\_\_\_\_

 percent were females.
 113) \_\_\_\_\_\_

Answer: 29.41% Explanation:

#### TABLE 2-9

The frequency distribution below represents the rents of 250 randomly selected federally subsidized apartments in Minneapolis.

Rent in \$	Frequency
300 but less than 400	113
400 but less than 500	85
500 but less than 600	32
600 but less than 700	16
700 but less than 800	4

114) Referring to Table 2-9, the class midpoint of the second class is \_\_\_\_\_.

114)

112) \_\_\_\_\_

Answer: 450 Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

115) Referring to Table 2-12, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the females in the population will not be against the plan.

115)

Answer: 88.46% or (36.54+51.92) Explanation:

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

116) Referring to Table 2-14, construct a table of row percentages.

Answer:

Own	Male	Female	Total
Yes	70.59%	29.41%	100.00%
No	48.28%	51.72%	100.00%
Total	53.33%	46.67%	100.00%

#### Explanation:

117) Referring to Table 2-14, \_\_\_\_\_ percent of the 600 were females who either owned or did not own a portable DVD.

Answer: 46.67% Explanation:

116) \_\_\_\_\_

117)

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

 118) Referring to Table 2-7, \_\_\_\_\_ percent of the cases were adjudicated within the first 2
 118) \_\_\_\_\_

 years.
 Answer: 30

 Explanation:
 Answer: 30

**TABLE 2-13** 

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

119) Referring to Table 2-13, construct a relative frequency or percentage distribution for the detergent data, using "9.0 but less than 10.0" as the first class.

119) \_\_\_\_\_

Answer:

Gasoline	
Purchases (gals)	Percentage
9.0 but less than 10.0	12%
10.0 but less than 11.0	20
11.0 but less than 12.0	36
12.0 but less than 13.0	24
13.0 but less than 14.0	8

Explanation:

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

Note: 1L means the "low teens" - 10, 11, 12, 13, or 14; 1H means the "high teens" - 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

120) Referring to Table 2-7, locate the first leaf, i.e., the lowest valued leaf with the lowest 120) valued stem. This represents a wait of \_\_\_\_\_ months. Answer: 12 Explanation:

#### **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

121) Referring to Table 2-12, \_\_\_\_\_\_ percent of the 200 were females who were either neutral 121) or against the plan.

Answer: 33% Explanation:

The frequency distribution below represents the rents of 250 randomly selected federally subsidized apartments in Minneapolis.

Rent in \$	Frequency
300 but less than 400	113
400 but less than 500	85
500 but less than 600	32
600 but less than 700	16
700 but less than 800	4

 122) Referring to Table 2-9, \_\_\_\_\_ percent of the apartments rented for no less than \$600.
 122) \_\_\_\_\_

 Answer: 8% or 20/250
 Explanation:

**TABLE 2-14** 

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portabl	е			
DVD Player	Male	Female		
Yes	96	40		
No	224	240		
			nple is a good representation of the population, we can opulation will be males.	123)
Answer: 53.3 Explanation:				
124) Referring to portable DVI		l,	$\_$ percent of the 600 were males who did not owned a	124)
Answer: 37.3 Explanation:				
125) Referring to	Table 2-14	ŀ,	_ percent of the 600 were females.	125)
Answer: 46.6 Explanation:				

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

126) Referring to Table 2-7, if a frequency distribution with equal sized classes was made from this data, and the first class was "10 but less than 20," the cumulative percentage of the second class would be \_\_\_\_\_\_.
Answer: 46% or 0.46 or 23/50 Explanation:

126)

TABLE 2-8

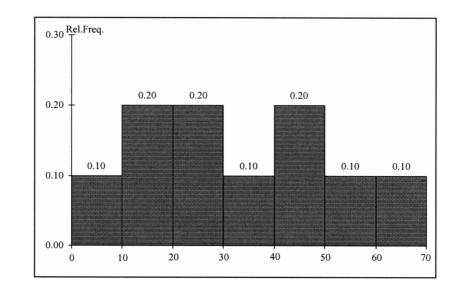
The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Stem	Leaves
0	012222233333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

127) Referring to Table 2-8, \_\_\_\_\_\_ of the 100 members visited the health club at least 52 times 122 in a year.

127)

Answer: 10 Explanation:



The histogram below represents scores achieved by 200 job applicants on a personality profile.

128) Referring to the histogram from Table 2-10, \_\_\_\_\_ percent of the applicants scored between 20 and below 50.

128)

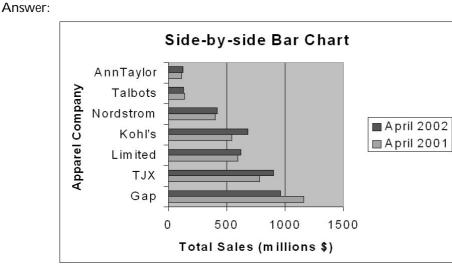
Answer: 50% Explanation:

The following table presents total retail sales in millions of dollars for the leading apparel companies during April 2001 and April 2002.

	A m m 1 01	A
Apparel Company	April 01	April 02
Gap	1,159.00	962
XLT	781.7	899
Limited	596.5	620.4
Kohl's	544.9	678.9
Nordstrom	402.6	418.3
Talbots	139.9	130.1
AnnTaylor	114.2	124.8

129) Referring to Table 2-17, construct a side-by-side bar chart.

129)



Explanation:

#### **TABLE 2-13**

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

130) Referring to Table 2-13, if a frequency distribution for the amount of detergent used is constructed, using "9.0 but less than 10.0 gallons" as the first class, the frequency of the "11.0 but less than 12.0 gallons" class would be \_\_\_\_\_.

130)

Answer: 9 Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

131) Referring to Table 2-12, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of the population will be males.

Answer: 48% Explanation:

132) The point halfway between the boundaries of each class interval in a grouped frequency distribution is called the \_\_\_\_\_\_.

Answer: class midpoint Explanation:

#### **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

133) Referring to Table 2-12, if the sample is a good representation of the population, we can expect \_\_\_\_\_\_ percent of those for the plan in the population will be males.

Answer: 24% Explanation: 133) \_\_\_\_\_

131)

132)

The Stem-and-Leaf display below contains data on the number of months between the date a civil suit is filed and when the case is actually adjudicated for 50 cases heard in superior court.

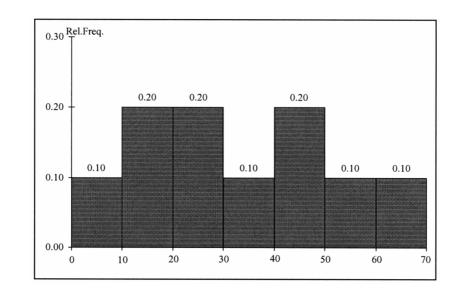
Stem	Leaves
1L	23444
1H	7899
2L	222234
2H	55678889
3L	001113
3H	5778
4L	0234
4H	5579
5L	1124
5H	66
6L	15
6H	8

*Note*: 1L means the "low teens" — 10, 11, 12, 13, or 14; 1H means the "high teens" — 15, 16, 17, 18, or 19; 2L means the "low twenties" — 20, 21, 22, 23, or 24, etc.

134) Referring to Table 2-7, if a frequency distribution with equal sized classes was made from 1 this data, and the first class was "10 but less than 20," the relative frequency of the third class would be \_\_\_\_\_\_.

134)

Answer: 0.20 or 20% or 10/50 Explanation:



The histogram below represents scores achieved by 200 job applicants on a personality profile.

135) Referring to the histogram from Table 2-10, the number of job applicants who scored between 30 and below 60 is \_\_\_\_\_.

135)

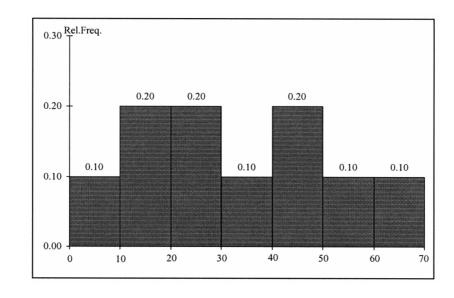
Answer: 80 Explanation:

#### TABLE 2-8

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Leaves
0122222333333445666666667789999
1111222234444455669999
00011223455556889
0000446799
011345567
0077
8
67
3
0247

Answer: 9 Explanation:



The histogram below represents scores achieved by 200 job applicants on a personality profile.

137) Referring to the histogram from Table 2-10, the number of job applicants who scored 50 or above is \_\_\_\_\_\_.

137)

Answer: 40 Explanation:

#### **TABLE 2-14**

The table below contains the number of people who own a portable DVD player in a sample of 600 broken down by gender.

Own a Portable		
DVD Player	Male	Female
Yes	96	40
No	224	240

 138) Referring to Table 2-14, of the females in the sample, \_\_\_\_\_ percent owned a portable
 138) \_\_\_\_\_

 DVD.
 138) \_\_\_\_\_\_

Answer: 14.29% Explanation:

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

Leaves
01222223333344566666667789999
1111222234444455669999
00011223455556889
0000446799
011345567
0077
8
67
3
0247

139) Referring to Table 2-8, if a frequency distribution with equal sized classes was made from this data, and the first class was "0 but less than 10," the class midpoint of the third class would be \_\_\_\_\_.

139)

Answer: 25 or (20+30)/2 Explanation:

#### **TABLE 2-13**

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02
-	

140) Referring to Table 2-13, if a percentage histogram for the detergent data is constructed,	140)	
using "9.0 but less than 10.0 gallons" as the first class, the percentage of drive-through car	-	
wash operations that use "12.0 but less than 13.0 gallons" of detergent would be		
Answer: 24%		
Explanation:		

 141) In constructing a polygon, each class grouping is represented by its \_\_\_\_\_ and then \_\_\_\_\_\_
 141) \_\_\_\_\_\_\_\_

 these are consecutively connected to one another.
 141) \_\_\_\_\_\_\_\_\_\_

Answer: midpoint Explanation:

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

 142) Referring to Table 2-12, of those neutral in the sample, \_\_\_\_\_ percent were males.
 142) \_\_\_\_\_\_

Answer: 40% Explanation:

#### **TABLE 2-11**

The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defects 1 2 4 4 5 5 6 7 9 9 12 12 15 17 20 21 23 23 25 26 27 27 28 29 29

143) Referring to Table 2-11, if a frequency distribution for the defects data is constructed, using "0 but less than 5" as the first class, the frequency of the "20 but less than 25" class would be

143)

Answer: 4 Explanation:

144) Referring to Table 2-11, construct a cumulative percentage distribution for the defects data 144) if the corresponding frequency distribution uses "0 but less than 5" as the first class.

Answer:

Defects	CumPct
0	0
5	16
10	40
15	48
20	56
25	72
30	100
•	

Explanation:

57

The Stem-and-Leaf display represents the number of times in a year that a random sample of 100 "lifetime" members of a health club actually visited the facility.

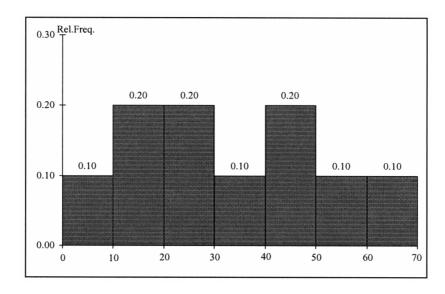
Stem	Leaves
0	0122222333333445666666667789999
1	1111222234444455669999
2	00011223455556889
3	0000446799
4	011345567
5	0077
6	8
7	67
8	3
9	0247

145) Referring to Table 2-8, \_\_\_\_\_\_ of the 100 members visited the health club no more than 12 times in a year.

Answer: 38 Explanation:

#### **TABLE 2-10**

The histogram below represents scores achieved by 200 job applicants on a personality profile.



146) Referring to the histogram from Table 2-10, half of the job applicants scored below

146)

145)

Answer: 30 Explanation:

The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defects

1	2	4	4	5	5	6	7	9	9	12	12	15
17	20	21	23	23	25	26	27	27	28	29	29	

147) Referring to Table 2-11, construct a frequency distribution for the defects data, using "0 but 147) less than 5" as the first class.

Answer:

Defects	Frequency
0 but less than 5	4
5 but less than 10	6
10 but less than 15	2
15 but less than 20	2
20 but less than 25	4
25 but less than 30	7

Explanation:

148) A(n) \_\_\_\_\_\_ is a vertical bar chart in which the rectangular bars are constructed at the boundaries of each class interval.

148)

Answer: histogram Explanation:

#### **TABLE 2-12**

The table below contains the opinions of a sample of 200 people broken down by gender about the latest congressional plan to eliminate anti-trust exemptions for professional baseball.

	For	Neutral	Against	Totals
Female	38	54	12	104
Male	12	36	48	96
Totals	50	90	60	200

 149) Referring to Table 2-12, of the females in the sample, \_\_\_\_\_ percent were against the \_\_\_\_\_\_\_
 149) \_\_\_\_\_\_\_

 plan.
 \_\_\_\_\_\_\_\_\_

Answer: 11.54% Explanation:

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

150) Ogives are plotted at the midpoints of the class groupings.			
Answer: True 🔮 False Explanation:			
151) If you wish to construct a graph of a relative frequency distribution, you would most likely construct an ogive first.	151)		

Answer: True Sealse Explanation:

152) T	he percentage	distrib	ution cannot be constructed from the frequency distribution directly.	152)
	nswer: Trux xplanation:	e 🤇	False	
_				
W			collected information on the age of their customers. The youngest customer was 72. To study the distribution of the age among its customers, it is best to	153)
	nswer: Tru xplanation:	e 🤇	False	
	• • •		categorical data, the side-by-side bar chart is best suited when primary ating differences in magnitude rather than differences in percentages.	154)
	nswer: 🧟 Tru xplanation:	e	False	
155) T	he sum of cum	ulative	e frequencies in a distribution always equals 1.	155)
	nswer: Tru xplanation:	e 🤇	False	
	One of the adva ie adds to 1009	•	of a pie chart is that it clearly shows that the total of all the categories of the	156)
	nswer: 🧟 Tru xplanation:	e	False	
	Vhen construct f equal width.	ing a fr	requency distribution, classes should be selected in such a way that they are	157)
	nswer: 🖉 Tru xplanation:	e	False	
	-		number of class groups to use in constructing frequency distribution is to nore than 15 class groups.	158)
	nswer: 🖉 Tru xplanation:	e	False	
W		oldest	collected information on the age of their customers. The youngest customer was 72. To study the percentage of their customers who are below a certain e.	159)
	nswer: 🥥 Tru	•	False	

Explanation:

The following table presents total retail sales in millions of dollars for the leading apparel companies during April 2001 and April 2002.

Apparel Company	April 01	April 02
Gap	1,159.00	962
XLT	781.7	899
Limited	596.5	620.4
Kohl's	544.9	678.9
Nordstrom	402.6	418.3
Talbots	139.9	130.1
AnnTaylor	114.2	124.8

160) Referring to Table 2-17, in general, retail sales for the apparel industry have seen a modest growth 160) between April 2001 and April 2002.

Answer: True False Explanation:

161) Apple Computer, Inc. collected information on the age of their customers. The youngest customer 161) was 12 and the oldest was 72. To study the distribution of the age among its customers, it can use a Pareto diagram.
 Answer: True

Explanation:

 162) In general, grouped frequency distributions should have between 5 and 15 class intervals.
 162)

 Answer: Image: An example a structure of the st

Explanation:

163) The sum of relative frequencies in a distribution always equals 1.

Answer: **O** True False Explanation:

164) The original data values cannot be assessed once they are grouped into a frequency distribution164)table.

Answer: **2** True False Explanation:

165) To determine the width of class interval, divide the number of class groups by the range of the data.
 Answer: True Palse
 165)

Explanation:

166) A polygon can be constructed from a bar chart.

166) \_\_\_\_\_

163)

Answer: True • False Explanation:

167)	167) Apple Computer, Inc. collected information on the age of their customers. The youngest customer was 12 and the oldest was 72. To study the distribution of the age among its customers, it can use a percentage polygon.					
	Answer: • True Explanation:	False				
168)	the human eye can mor	rception concludes that the bar chart is preferred to the pie chart, because re accurately judge length comparisons against a fixed scale (as in a bar asures (as in a pie chart).	168)			
	Answer: • True Explanation:	False				
169)	The main principle beh many."	ind the Pareto diagram is the ability to track the "vital few" from the "trivial	169)			
	Answer: • True Explanation:	False				
170)	The stem-and-leaf disploriginal values for furth	lay is often superior to the frequency distribution in that it maintains the ner analysis.	170)			
	Answer: • True Explanation:	False				
171)	into six distinct categor	small town monitors customer complaints and organizes these complaints ies. Over the past year, the company has received 534 complaints. One nod for representing these data would be a Pareto chart.	171)			
	Answer: • True Explanation:	False				
172)	Determining the class b	ooundaries of a frequency distribution is highly subjective.	172)			
	Answer: • True Explanation:	False				
173)	An ogive is a cumulativ	ve percentage polygon.	173)			
	Answer: • True Explanation:	False				
174)		enth and eighth class in a cumulative frequency distribution are the same, no observations in the eighth class.	174)			
	Answer: • True Explanation:	False				
175)	The relative frequency	is the frequency in each class divided by the total number of observations.	175)			
	Answer: • True Explanation:	False				
176)	A histogram can have g	gaps between the bars, whereas bar charts cannot have gaps.	176)			
	Answer: True 🧧 Explanation:	False				

177) A side-by-side chart is two histograms plotted side-by-side.					
Answer: True 🔮 False Explanation:					
178) A research analyst was directed to arrange raw data collected on the yield of wheat, ranging from 40 to 93 bushels per acre, in a frequency distribution. He should choose 30 as the class interval width.	178)				
Answer: True 🔮 False Explanation:					
179) Percentage polygons are plotted at the boundaries of the class groupings.	179)				
Answer: True 🔮 False Explanation:					
180) The larger the number of observations in a numerical data set, the larger the number of class intervals needed for a grouped frequency distribution.	180)				
Answer: <a>True</a> FalseExplanation:					
181) The percentage polygon is formed by having the lower boundary of each class represent the data in that class and then connecting the sequence of lower boundaries at their respective class percentages.	181)				
Answer: True 🖉 False Explanation:					
182) Histograms are used for numerical data while bar charts are suitable for categorical data.	182)				
Answer: O True False Explanation:					
183) In general, a frequency distribution should have at least 8 class groups but no more than 20.	183)				
Answer: True 🖉 False					

Explanation:

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

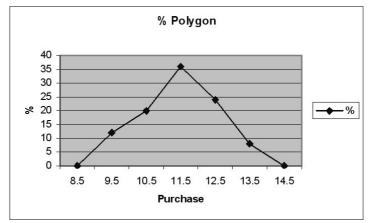
**TABLE 2-13** 

Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

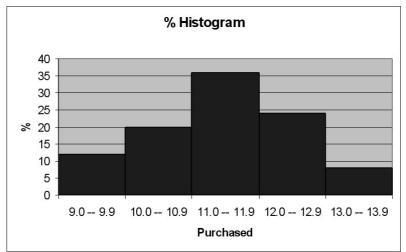
184) Referring to Table 2-13, construct a percentage polygon for the detergent data if the corresponding frequency distribution uses "9.0 but less than 10.0" as the first class.





185) Referring to Table 2-13, construct a histogram for the detergent data, using "9.0 but less than 10.0" as the first class.





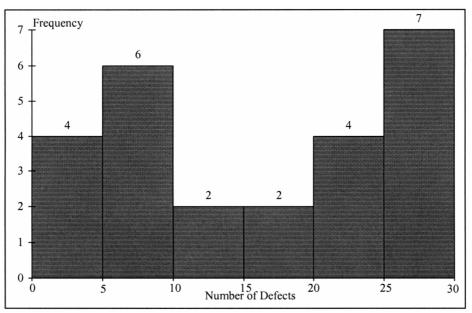
The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defects

 1
 2
 4
 4
 5
 5
 6
 7
 9
 9
 12
 12
 15

 17
 20
 21
 23
 23
 25
 26
 27
 27
 28
 29
 29

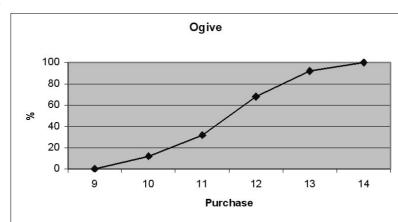
186) Referring to Table 2-11, construct a histogram for the defects data, using "0 but less than 5" as the first class. Answer:



Given below is the stem-and-leaf display representing the amount of detergent used in gallons (with leaves in 10ths of gallons) in a month by 25 drive-through car wash operations in Phoenix.

Stem	Leaves
9	147
10	02238
11	135566777
12	223489
13	02

187) Referring to Table 2-13, construct a cumulative percentage polygon for the detergent data if the corresponding frequency distribution uses "9.0 but less than 10.0" as the first class.



Answer:

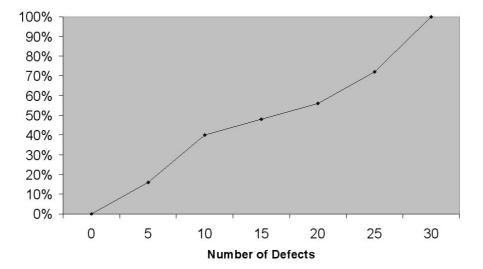
The ordered array below resulted from taking a sample of 25 batches of 500 computer chips and determining how many in each batch were defective.

Defects

1	2	4	4	5	5	6	7	9	9	12	12	15
17	20	21	23	23	25	26	27	27	28	29	29	

188) Referring to Table 2-11, construct a cumulative percentage polygon for the defects data if the corresponding frequency distribution uses "0 but less than 5" as the first class.

Answer:



#### **Cumulative Percentage Polygon**

1) 2) 3) 4) 5) 6) 7) 8) 9) 10) 11) 12) 13) 14) 15) 16) 17) 13) 14) 15) 16) 17) 13) 14) 15) 16) 17) 20) 21) 22) 23) 24) 25) 26) 27) 28) 29) 30) 31) 32) 33) 34) 35) 36) 37) 33) 33) 33) 33) 35) 36) 37) 37) 38) 37) 37) 37) 37) 37) 37) 37) 37	DDABCCDDACDBAAAABDBCCAAACDBDDCCACD		
29) 30) 21)	D D C		
32)	C		
34)	С		
35) 36)			
37) 38)	C C		
39) 40)	А		
41) 42)	А		
43)	D		
44) 45)	D		
46) 47)			
48) 49)	А		
50)			

#### 51) C

#### 52) D

#### , 53)

5)			
	Apparel Company	April 2001	April 2002
	Gap	31.00%	25.09%
	XLT	20.91%	23.45%
	Limited	15.95%	16.18%
	Kohl's	14.57%	17.71%
	Nordstrom	10.77%	10.91%
	Talbots	3.74%	3.39%
	AnnTaylor	3.05%	3.26%
	Total	100.00%	100.00%

54) 0.08 or 8% or 2/25

- 55) 63.46% or (51.92+11.54)%
- 56) 20.8% or 52/250

57) 24%

- 58) non-overlapping and of equal width
- 59) class boundaries
- 60) 6.67%
- 61) 9
- 62) 30%
- 63) 22.67%
- 64) 88%
- 65) 76%
- 66)

00)				
	Def	ects	Perce	entage
	0 but less	s than 5	)	16
	5 but less	s than 1	0	24
	10 but les	ss than	15	8
	15 but les	ss than	20	8
	20 but les	ss than	25	16
	25 but les	ss than	30	28
67)	the same	or equa	al	
68)	80%			
69)	4% or 0.0	4 or 4/1	00	
70)	Gap and	Talbots	5	
71)	48.28%			
72)	50%			
73)	22.67%			
74)	97			
75)				
		For	Neutral	Agains
	Female	19.00	27.00	6.00

Female	19.00	27.00	6.00
Male	6.00	18.00	24.00
Total	25.00	45.00	30.00
-			

76) 77.33%

77) relative frequency or percentage

52.00 48.00 100.00

	•					
78)						
	48%					
	85.71%					
	30%					
	80%					
83)		- For M	loutral	Againa	+ Totala	
	Tomala			-	t Totals	-
	Female Male	76.00	60.00	20.00	52.00	
		24.00	40.00	80.00	48.00	
	Total	100.00	100.00	100.00	100.00	
84)	55%					
85)						
	16%					
	85.71%					
	0 or no					
		or 23/25 (	or 92%	or 0 92		
		or 17/50 o				
	12.50%	11/30 0	1 3470 0	1 0.04		
	20%					
-	18%					
94)						
, ,		For 1	Veutral	Agains	t Totals	-
	Female	36.54	51.92	-	100.00	-
	Male	12.50	37.50	50.00	100.00	
	Totals	25.00	45.00	30.00	100.00	
						•
	-	ency or cr	oss-cla	ssificatio	on table	or side-by-side bar chart
	117					
	70.59%					
	68%					
	25%					
	•	cy distrib	ution			
	50%					
102)						
103)						
	Own	Male	Ferr		Total	
	Yes	30.00%			22.67%	
	No	70.00%			77.33%	
	Total	100.00%	100.0	00% 1	00.00%	
	•	ages or pi	roportio	ons		
105)						
104)	60/					

106) 6%

107) 96% or 0.96 or 96/100

#### 108)

′			
	Gasoline	Frequency	Percentage
	Purchases (gals)	Less Than	Less Than
	9.0 but less than 10.0	3	12
	10.0 but less than 11.0	8	32
	11.0 but less than 12.0	17	68
	12.0 but less than 13.0	23	92
	13.0 but less than 14.0	25	100

#### 109)

Own	Male	Female	Total
Yes	16.00%	6.67%	22.67%
No	37.33%	40.00%	77.33%
Total	53.33%	46.67%	100.00%

#### 110) 68

1	1	1	)
			'

,					
	Purchas	ses (gals)		Frequ	lency
	9.0 but	less than	10.0	3	3
	10.0 but	less than	11.0	Ę	5
	11.0 but	less than	12.0	ç	)
	12.0 but	less than	13.0	6	
	13.0 but	less than	14.0	2	2
112)	30%				
113)	29.41%				
114)	450				
115)	88.46%	or (36.54+	51.92	<u>2)</u>	
116)					
	Own	Male	Fer	nale	Total
	Voc	70 50%	20	/10/	100.00

70.59%	29.41%	100.00%
48.28%	51.72%	100.00%
53.33%	46.67%	100.00%
	48.28%	48.28% 51.72%

# 117) 46.67% 118) 30 119) \_\_\_\_\_

Gasoline	
Purchases (gals)	Percentage
9.0 but less than 10.0	12%
10.0 but less than 11.0	20
11.0 but less than 12.0	36
12.0 but less than 13.0	24
13.0 but less than 14.0	8

120) 12

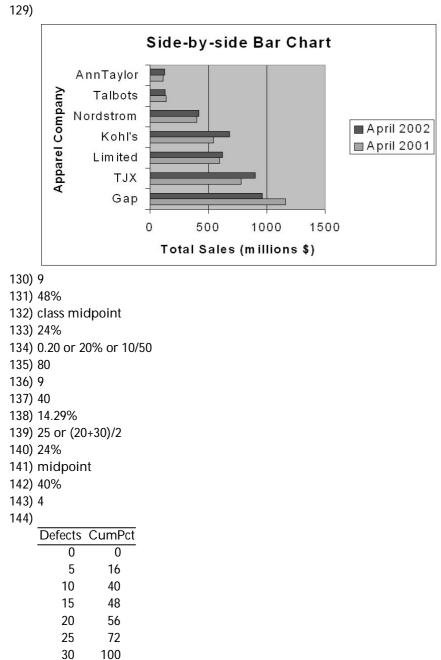
121) 33%

122) 8% or 20/250

, 123) 53.33%

, 124) 37.33%

```
125) 46.67%
126) 46% or 0.46 or 23/50
127) 10
128) 50%
```



145) 38

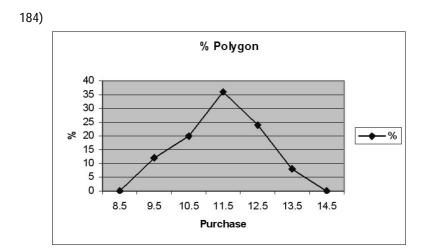
146) 30

147)

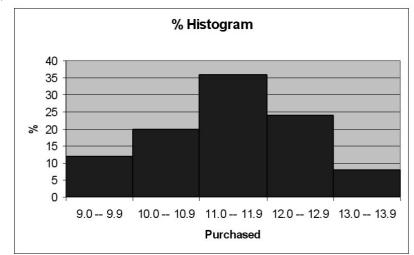
147)		
	Defects	Frequency
	0 but less than 5	4
	5 but less than 10	6
	10 but less than 15	2
	15 but less than 20	2
	20 but less than 25	4
	25 but less than 30	7
148)	histogram	
149)	11.54%	
150)	FALSE	
151)	FALSE	
152)	FALSE	
153)	FALSE	
154)	TRUE	
155)	FALSE	
156)	TRUE	
157)	TRUE	
158)	TRUE	
159)	TRUE	
160)	TRUE	
161)	FALSE	
162)	TRUE	
163)	TRUE	
164)	TRUE	
165)	FALSE	
166)	FALSE	
167)	TRUE	
168)	TRUE	
169)	TRUE	
170)	TRUE	
171)	TRUE	
172)	TRUE	
173)	TRUE	
174)	TRUE	
175)	TRUE	
176)	FALSE	
177)	FALSE	
178)	FALSE	
179)	FALSE	
180)	TRUE	
181)	FALSE	
182)	TRUE	

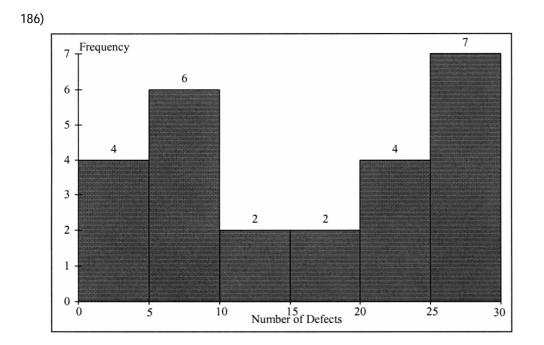
183) FALSE

Answer Key Testname: C2

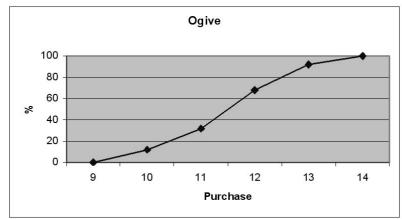








187)



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188)

Cumulative Percentage Polygon

