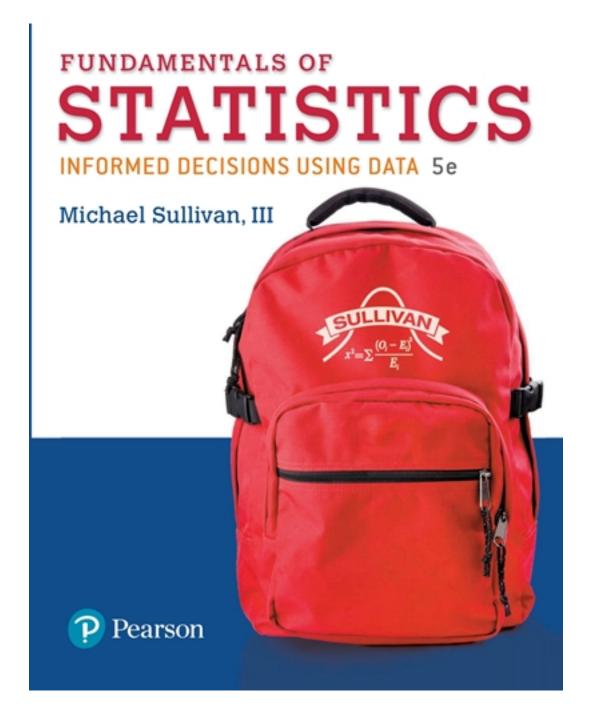
Solutions for Fundamentals of Statistics 5th Edition by Sullivan

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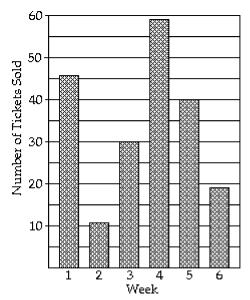
Solutions

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an anneoneist			-	at best co	-				r answer	s the que	estion.	
1) Scott Tarnov the dog. His and a relativ frequency.	records fr	a pet g	rooming t year are	shop. His summari	prices zed be	s for g elow. (roomin Constru	ng dogs act a free	quency d	istributi	1)	
Class		1	Frequency	Ţ.								
Large			345	<u> </u>								
Mediun	ı		830									
Small			645									
Neutral Oppose Strongly Op 3) The prescho The results a	opose ol childrer										3)	
distribution												
	green l ourple ye	urple blue ellow ellow	yellow green yellow green	green purple yellow red								
green p				4 b. 4 b	st com	nplete	s the st	tatemen	t or ansv	vers the c	question	
green p	Choose th	he one	alternativ	e that be								

The bar graph shows the number of tickets sold each week by the garden club for their annual flower show.

Number of Tickets Sold Each Week



6) During which week was the most number of tickets sold?

A) week 5

B) week 1

C) week 2

D) week 4

7) During which week was the fewest number of tickets sold?

A) week 5

B) week 4

C) week 2

D) week 6

8) Approximately how many tickets were sold during week 6?

A) 46 tickets

B) 11 tickets

C) 30 tickets

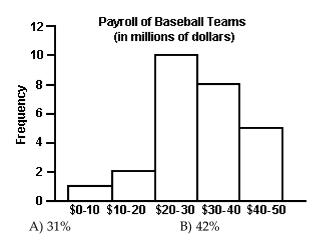
D) 19 tickets

8) _____

Provide an appropriate response.

9) The payroll amounts for 26 major-league baseball teams are shown below. Approximately what percentage of the payrolls were in the \$30-\$40 million range? Round to the nearest whole percent.

9) _____

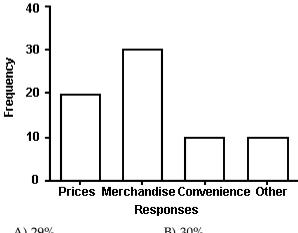


C) 19%

D) 8%

10) Retailers are always interested in determining why a customer selected their store to make a purchase sporting goods retailer conducted a customer survey to determine why its customers shopped at the The results are shown below. What percentage of the customers responded that the merchandise wa reason they shopped at the store? Round to the nearest whole percent

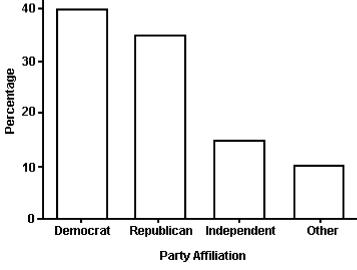




A) 29%

- B) 30%
- C) 50%
- D) 43%
- 11) The bar graph below shows the political party affiliation of 1000 registered U.S. voters. What percen the 1000 registered U.S. voters belonged to one of the traditional two parties (Democratic and Reput

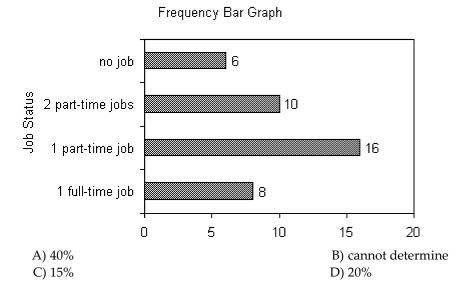




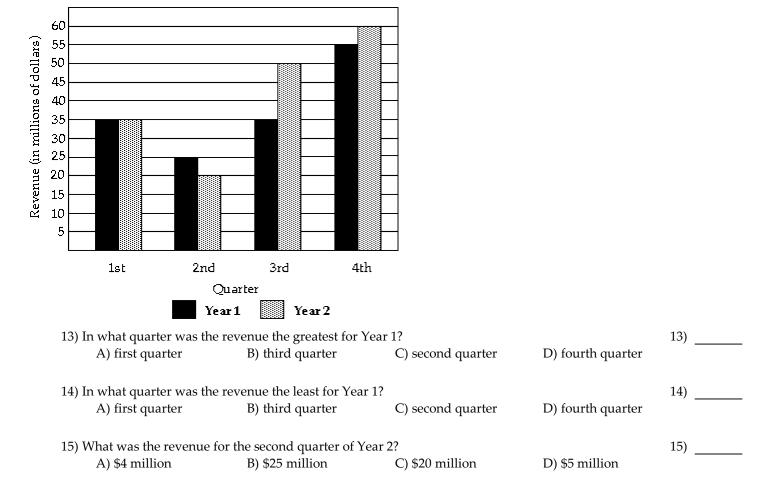
A) 75%

- B) 40%
- C) 25%
- D) 35%

12) The Excel frequency bar graph below describes the employment status of a random sample of U.S. a 12) ______ What is the percentage of those having no job?



The following double-bar graph illustrates the revenue for a company for the four quarters of the year for two different ye Use the graph to answer the question.



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

Provide an appropriate response.

16) The grade point averages for 40 evening students are listed below. Construct a frequency ba 16) _____ graph and a relative frequency bar graph.

Grade Point Average	Frequency
0.5-0.9	4
1.0 - 1.4	2
1.5-1.9	7
2.0-2.4	9
2.5-2.9	2
3.0-3.4	10
3.5-3.9	2
4.0-4.4	4

17) The local police, using radar, checked the speeds (in mph) of 30 motorists in a construction (a 17) ______ The results are listed below. Construct a frequency bar graph and a relative frequency bar g

Speed	Frequency
33-35	3
36-38	6
39-41	6
42-44	6
45-47	3
48-50	6

18) Listed below are the ACT scores of 40 randomly selected students at a major university. 18)

 18
 22
 13
 15
 24
 24
 20
 19
 19
 12

 16
 25
 14
 19
 21
 23
 25
 18
 18
 13

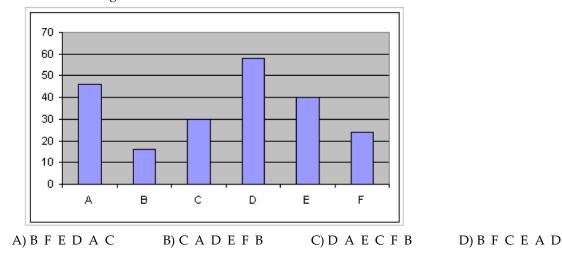
 26
 26
 25
 25
 19
 17
 18
 15
 13
 21

 19
 19
 14
 24
 20
 21
 23
 22
 19
 17

- a) Construct a relative frequency bar graph of the data, using eight classes.
- b) If the university wants to accept the top 90% of the applicants, what should the minimum be?
- c) If the university sets the minimum score at 17, what percent of the applicants will be acce

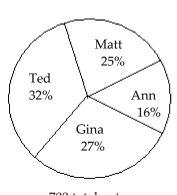
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

19) Given the bar graph shown below, the Pareto chart that would best represent the data should have t 19) _____ bars in the following order.



The pie chart shows the percentage of votes received by each candidate in the student council presidential election. Use the pie chart to answer the question.

20) Student Council President 20) _____



700 total votes

Who got the most votes?

A) Matt

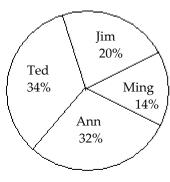
B) Ann

C) Ted

D) Gina

21) _____

Student Council President



500 total votes

Who got the fewest votes?

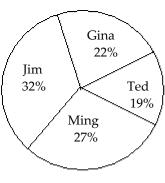
A) Ann

B) Ted

C) Jim

D) Ming

22) _____ Student Council President



500 total votes

What percent of the votes did Ted and Gina receive together?

A) 59%

B) 41%

C) 19%

D) 22%

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

Construct a pie chart for the data. Label each category with its percentage.

23) A study was conducted to determine how people get jobs. Four hundred subjects were rand selected and the results are listed below. Round percents to whole numbers.

Job Sources of	
Survey Respondents	Frequency
Newspaper want ads	72
Online services	124
Executive search firms	69
Mailings	32
Networking	103

•			0 .	1 1	ig dogs are based on the	
the dog	g. His recor	ds from la	st year are sun	nmarized below. Kound	percents to whole numb	
C	lace		Eroguanav			
	<u>Class</u> arge		Frequency 345			
	edium		830			
	Small		645			
3	oman		043			
MULTIPLE CHO	OICE. Choo	ose the one	e alternative tl	hat best completes the st	tatement or answers the qu	estion.
Provide an appro	nriste resr	nonse				
			d candy conta	ained 100 caramels, 83 mi	int patties, 93 chocolate squa	ares, 25)
·	_	•	•		hart of this data, the angle fo	
		-	•		degree measure of the slice	
	-			he nearest degree?	degree measure or the since	
A) 6	-	min partie	B) 5°	C) 52°	D) 19°	
11) 0			2) 0	C) 02	2) 1)	
SHORT ANSWE	R. Write t	he word o	phrase that b	est completes each state	ement or answers the quest	ion.
Construct a frequ	1ency distr	ibution fo	r the data			
-	-			nts is selected. Each stude	ent is asked how much tii	26)
,		0		evious week. The following		
obtaine	1	e miteriet	auring the pre	vious week. The followin	ing times (in nours) are	
		9 16 14	16 15 13 19	9		
			13 13 18 15			
			14 17 16 15			
			bution for the			
	1	J				
27) A samı	ple of 25 se	rvice proje	ct scores is tak	ken and is recorded below	w. Construct a frequency	27)
distrib	ution for th	is data.				
97	96 96 9	95 96				
99	97 97 10	00 99				
95	98 95 9	96 100				
95	98 96 9	96 100				
95	97 99 9	97 98				
Construct the spe	acified hist	ooram				
-		•	s school studor	nte is colocted. Each stud	lent is asked how much ti	28)
·	-	_		evious week. The followi		
recorde		c michiel (darnig tile pre	VIOUS WEEK. THE IUIIUWI	ing unics (in nours) are	
		1 8 6	8 7 5 1	11		
ο	7 7	6 9 8	8 7 5 1 5 5 10	7		
5	7 14	9 6 10		7		
			gram for this d			
Constr	uci a meque	ericy msios	grann for tills ti	iaia.		

									scores are reco	rded. The r	esı 29)	
are	how	n be	elov	v. C	onstru	ct a frequenc	y histogram f	or this data	١.			
	97 9	6 9	96	95	96							
	99 9	7 9	97	100	99							
	95 9	8 9	95	96	100							
	95 9	8 9	96	96	100							
	95 9				98							
MIII TIDI E C	זטור	TE	Ch	000	tha a	na altarnativ	a that bast so	mnlatae th	a statement or	ancruore H	no augstion	
MULTIPLE C	ioic	-E.	CII	OUSE	: the o	ne anternativ	e mai best co	impietes in	ie statement of	answers u	ie question.	
Provide an ap	ropr	iate	re	spoi	nse.							
						erence betwee	en					30)
· ·							er class limit	of a class				
			_			data values						
		_				r class limits						
							allest frequen	CV				
٥	1110	101	500		querie	y directive since	arrest frequer	c y				
21) D. (1.		1		.1 d	C	.1 . 11				21)
31) Dete	rmın	e tr	ıe n	umi	er or o	classes in the	frequency tal	ole below.				31)
<u>C1.</u>	. T.			_								
	s Fre		enc	<u>y</u>								
23-		7										
25-		2										
27-		6										
29-		4										
31-	2	1		_								
	•											
A	20					B) 6		C) 2		D) 5		
32) Find	the o	clas	s w	idth	for the	e frequency t	able below.					32)
Cla	s Fre	equ	enc	y								
22-	:3	3										
24-	25	1										
26-	27	3										
28-	<u> 1</u> 9	6										
30-	31	2										
				_								
A	1.5					B) 1		C) 2.5		D) 2		
						·		·		·		
33) Use	the fo	allo	wir	no fr	eanen	cy distributio	n to determin	ne the class	limits of the th	ird class		33)
<i>55)</i> C 5C	iiic ic	J110	** 11	.6	equerk	ey distributio	n to determin	ic tric cruss	mints of the tr	ira ciass.		
Cla	s Fre	2011	enc	177								
9-1		5	CIIC	<u>y</u>								
9-1 16-		9										
23-		6										
23-: 30-:												
30 37		3										
		7										
44-	U	4		_								

B) lower limit: 23; upper limit: 29 D) lower limit: 22; upper limit: 30

A) lower limit: 23; upper limit: 30 C) lower limit: 22.5; upper limit: 29.5 34) A researcher records the number of employees of each of the IT companies in the town of Westmoo: 34) _______ The results are summarized in the table.

Number of Employees	Number of IT Companies
0 - 749	34
750 - 1499	24
1500 - 2249	9
2250 - 2999	7
3000 - 3749	5

Find the class width.

- A) 3749
- B) 749.5
- C) 750
- D) 5

35) A researcher records the number of employees of each of the IT companies in the town of Westmoo. 35) _____ The results are summarized in the table.

Number of Employees	Number of IT Companies
0 - 399	32
400 - 799	21
800 - 1199	5
1200 - 1599	10
1600 - 1999	10

Find the class limits of the third class.

- A) lower limit: 799.5; upper limit: 1199.5
- C) lower limit: 799; upper limit: 1200
- B) lower limit: 800; upper limit: 1200
- D) lower limit: 800; upper limit: 1199

36) The weights (in pounds) of babies born at St Mary's hospital last month are summarized in the table 36)

Weight	: (lb)	Number of Babies
5.0 - 5	5.8	8
5.9 - 0	6.7	18
6.8 – 7	⁷ .6	20
7.7 – 8	3.5	9
8.6 - 9	9.4	4

Find the class width.

- A) 0.9 lb
- B) 0.95 lb
- C) 0.8 lb
- D) 0.85 lb

37) The weights (in pounds) of babies born at St Mary's hospital last month are summarized in the table 37)

Weight (lb)	Number of Babies
5.0 - 5.8	8
5.9 - 6.7	20
6.8 – 7.6	18
7.7 – 8.5	10
8.6 - 9.4	4

Find the class limits for the second class.

- A) lower limit: 5.9; upper limit: 6.8
- C) lower limit: 5.9; upper limit: 6.7
- B) lower limit: 5.85; upper limit:6.75
- D) lower limit: 5.8; upper limit: 6.8

38) The table below summarizes the weights of the almonds (in grams) in a one-pound bag. What is the 38)

class w	idth?	?											
We	ight ((g)	F	reau	ency								
0.758	-	-	_	1	cricy	_							
0.818				1									
0.878				1									
0.938				3									
0.998				15	7								
1.058				17									
1.118				8									
11110													
A) 0.	06				B)	0.4				C) 0.408		D) 0.059	
·	uest ne pr	ed fr ecipi	eque : tatior	ncy (distri ounts	buti s (in i	o n. inche	es) for	r 40 c	pletes each state ites are listed be ising eight classe	low. Construc	_	
			2.9										
			2.3										
			0.5 2.1										
5.0	1.0	7 1.0	2.1	1.7	1.1	0.5	0.2	5.0	۷.۷				
40) The commute times (in minutes) of 30 executives are listed below. Construct a frequency distribution and a relative frequency distribution using five classes. Round relative frequency values to three decimal places.												40)	
70	72	71	70 <i>6</i>	io 7	2 60) 69	70	71					
			70 C										
			67 7										
07	/ 1	00	07 7	5 7	T /(, , ,	. 07	00					
		-								ers are listed belousing six classes.		a frequenc	41)
			50 3		_	-				13111g 31x Clu33C3.			
			41 4										
			36 3										
Provide an appro	nriat	e res	nons	e									
					เพลร	seled	ted:	and t	heir v	veights (in poun	ds) were reco	rded as follo	42)
_			37 12			ocie.	· · ·	ario t	icii v	veignio (in pour	as, were recor	aca as rom	
			26 12										
			00 12										
						e the	unr	er ar	ıd lov	ver limits for fiv	e classes, start	ing with a	
limit of							rr		- •		,	0	
b. Cons						outio	n for	the c	lata				

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Construct	tha	enocified	histogran	•
Construct	ıne	specified	nistogran	ı.

43) For the data below, construct a frequency distribution and a relative frequency distribution. 43)

Height (in inches)	Frequency
50 - 52	5
53 - 55	8

0 .	
50 - 52	5
53 - 55	8
56 - 58	12
59 - 61	13
62 - 64	11

44) For the data below, construct a frequency histogram and a relative frequency histogram.

44)

Weight (in pounds)	Frequency
135 - 139	6
140 - 144	4
145 - 149	11
150 - 154	15
155 - 159	8

45) The 30 students in Mrs Harrison's literature class were asked how many cousins they had. T 45) results are shown below. Create a frequency histogram for the data using a class width of 2

10	1	3	5	4	7
5	1	0	9	11	1
5	4	1	7	7	11
0	6	6	1	5	7
10	1	1	5	6	0

46) The 30 students in Mrs Harrison's literature class were asked how many cousins they had. 46) _ The results are shown below. Construct a relative-frequency histogram using a class width



47) A sample of 15 Girl Scouts was selected and their weights (in pounds) were recorded. The r 47) are listed below. Construct a frequency histogram for the data using a class width of 10 and 95 a

113100	a belov	v. Co.	istiuc	i a frequency firstogram for the data using a class	VV I
as the	lower	limit	of the	first class.	
97	120	137	124	117	

108 134 126 123 106 130 110 100 120 140

MULTIPLE CHOICE. Cho	oose the one alternative	that best comp	oletes the statement or	answers the question.
----------------------	--------------------------	----------------	-------------------------	-----------------------

Provide	an	appro	priate	response.

48) What is the difference between a bar chart and a histogram?

- 48) _____
- A) The bars in a bar chart are all the same width while the bars of a histogram may be of various widths.
- B) The bars on a bar chart do not touch while the bars of a histogram do touch.
- C) The bars in a bar chart may be of various widths while the bars of a histogram are all the same width.
- D) There is no difference between these two graphical displays.
- 49) For the stem-and-leaf plot below, what are the maximum and minimum entries?

49) _____

- 1 | 3 4
- 1 | 666789
- 2 | 0 1 1 2 3 4 4 5 6 6
- 2 | 77788999
- 3 | 0 1 1 2 3 4 4 5 5
- 3 | 66678899
- 4 | 13
 - A) max: 43; min: 13
 - C) max: 41; min: 13

- B) max: 47; min: 14
- D) max: 38; min: 7

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

Determine the original set of data.

50)

•			
	Stem	Leaves	
	7	1	
	8	7	
	9	0 9	
	10	2	
	11	0 1	
	12	6 9	
		6 7 9	
	14	2 3 8 9	
	15	0 9	
	T	J. Eld	1

Legend: 5 | 1 represents 51

51)	51)
Stem Leaves	, <u> </u>
5 5	
$6 \mid 4$	
7 0 1	
8 5	
9 2 4	
10 6 9	
11 6 7 9	
12 2 3 8 9	
13 7 9	
Legend: 5 5 represents 5.5	
Construct a stem-and-leaf plot for the data.	
52) The number of home runs that Mark McGwire hit in the first 13 years of his major league	52)
baseball career are listed below. (Source: Major League Handbook) Construct a	
stem-and-leaf plot for this data.	
3 49 32 33 39 22 42 9 9 39 52 58 70	
53) The numbers of runs batted in by Mark McLemore in the first 13 years of his major league	53)
baseball career are listed below. (Source: Major League Handbook) Construct a	
stem-and-leaf plot for this data.	
0 102 56 25 9 9 56 165 88 122 150 91 114	
	54)
the data.	
70 72 71 70 69 73 69 68 70 71	
67 71 70 74 69 68 71 71 72	
69 71 68 67 73 74 70 71 69 68	
55) The March utility bills (in dollars) of 30 homeowners are listed below. Construct a	55)
stem-and-leaf plot for the data.	
44 38 41 50 36 36 43 42 49 48	
35 40 37 41 43 50 45 45 39 38	
50 41 47 36 35 40 42 43 48 33	
	- 0
56) The scores for an economics test are listed below. Create a stem-and-leaf plot for the data.	56)
87 76 91 77 90 96 88 85 66 89	
79 95 51 94 83 88 82 59 13 69	
Construct a datalat for the data	
Construct a dot plot for the data. 57) The local police, using radar, checked the speeds (in mph) of 30 motorists at a busy intersect	57)
The results are listed below. Construct a dot plot for the data.	
44 38 41 50 36 36 43 42 49 48	
35 40 37 41 43 50 45 45 39 38	
53 40 57 41 43 30 43 43 39 36	

	re listed below. Construct a dot plot for the data.	58)
70 72 71 70 69 73 69 68 70		
67 71 70 74 69 68 71 71 71		
69 71 68 67 73 74 70 71 69	68	
MULTIPLE CHOICE. Choose the one alternative	that best completes the statement or answers the qu	aestion.
Construct a frequency distribution for the data usi	ing five classes. Describe the shape of the distributi	ion.
59) The data set: Pick Three Lottery Outcome	es for 10 Consecutive Weeks	59)
3 6 7 6 0 6 1 7 8 4		
1 5 7 5 9 1 5 3 9 9		
2 2 3 0 8 8 4 0 2 4		
A) skewed to the left	B) uniform	
C) skewed to the right	D) bell shaped	
60) The data set: ages of dishwashers (in yea	ars) in 20 randomly selected households	60)
12 6 4 9 11 1 7 8 9 8		
9 13 5 15 7 6 8 8 2 1	D):(
A) skewed to the right	B) uniform D) hall shaped	
C) skewed to the left	D) bell shaped	
61) The data set: weekly grocery bills (in doll	lars) for 20 randomly selected households	61)
135 120 115 132 136 124 119	•	- /
125 120 115 130 140 105 116		
A) bell shaped	B) skewed to the right	
C) uniform	D) skewed to the left	
Describe the shape of the distribution.		
62)		62)
/		
<u>ئ</u> ا		
ative Frequency		
£ / \		
≝ / \		
and 1		
<u></u>	D) 1 11 1 1	
A) uniform	B) bell shaped	
C) skewed to the right	D) skewed to the left	
63)		63)
-,		/
ử		
Frequency (Co.)		
<u> </u>		
81 / Y		

A) uniform

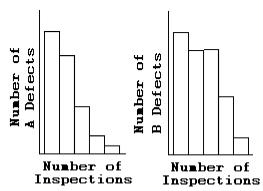
C) skewed to the right

B) skewed to the left D) bell shaped

Use the histograms shown to answer the question.

64)

64) _____



Is either histogram symmetric?

- A) Neither is symmetric.
- B) Both are symmetric.
- C) The first is symmetric, but the second is not symmetric.
- D) The second is symmetric, but the first is not symmetric.

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

Describe the shape of the distribution.

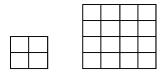
65) A sample of 15 Little League players was selected and their weights (in pounds) were record 65) ______ follows:

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

Explain what is misleading about the graphic.

66)

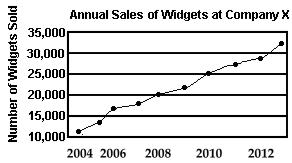
66) _____



The volume of our sales has doubled!!!

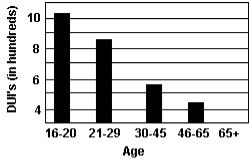
- A) The length of a side has doubled, but the area has been multiplied by 4.
- B) The length of a side has doubled, but the area has been multiplied by 8.
- C) The graphic is not misleading.
- D) The length of a side has doubled, but the area has been unchanged.

67) _____



- A) The graphic is not misleading.
- B) The vertical scale does not begin at zero.
- C) The trend is depicted in the wrong direction.
- D) The horizontal label is incomplete.

68) 2012 DUI Figures for State County 68)



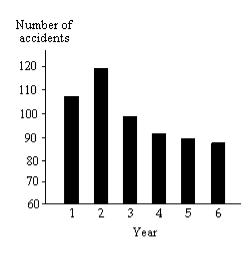
- A) The graphic only includes information for one year.
- B) The graphic may give the impression that drivers over age 65 had no DUI's in 2012.
- C) The horizontal scale does not begin at zero.
- D) The graphic is not misleading.

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

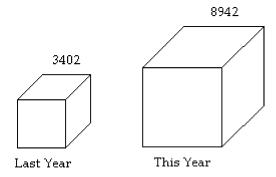
Provide an appropriate response.

69) The following graph shows the number of car accidents occurring in one city in each of the years 2006 through 2011 (Year 1 = 2006, Year 2 = 2007 etc). The number of accidents dropped in 2008 after a new speed limit was imposed. How is the bar graph misleading? How would redesign the graph to be less misleading?





70) A parcel delivery store finds that their delivery rates increased over the past year. Last year 70) ______ delivered 3402 parcels. This year it delivered 8942 parcels.



How many times larger should the graphic for this year be than the graphic for last year?

Answer Key Testname: UNTITLED56

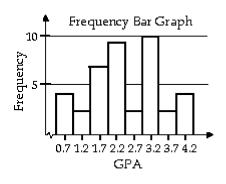
1) Class	Frequency	Relative Frequency	Percentage
Large	345	0.190	19.0
Medium	830	0.456	45.6
Small	645	0.354	35.4
Total	1820	1.000	100.0

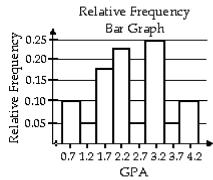
2)

Response	Frequency	Relative Frequency		
Strongly Favor	38	0.19		
Favor	37	0.185		
Neutral	20	0.1		
Oppose	21	0.105		
Strongly Oppose	84	0.42		

Color	Frequency	Relative Frequency
blue	3	0.15
purple	4	0.20
yellow	5	0.25
green	7	0.35
red	1	0.05

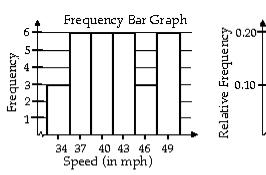
- 4) A
- 5) A
- 6) D
- 7) C
- 8) D
- 9) A
- 10) D
- 11) A 12) C
- 13) D
- 14) C
- 15) C
- 16)

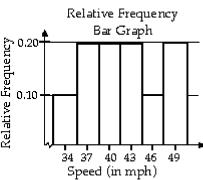




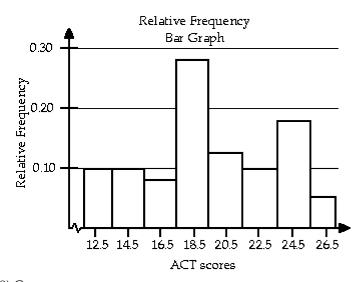
Answer Key

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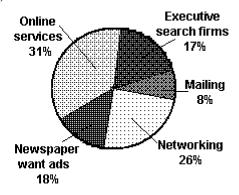




- 18) a) See graph below
 - b) The minimum score = 14
 - c) The university will accept 76.57% of the applicants.

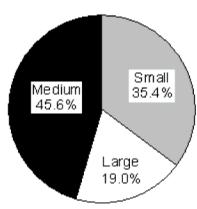


- 19) C
- 20) C 21) D
- 22) B
- 23)



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25) A

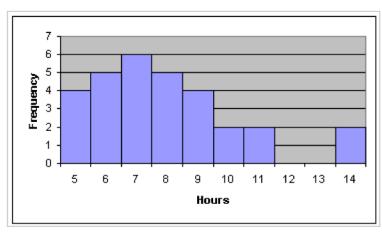
26)

Hours | Number of

On Net	HS Students
13	4
14	5
15	6
16	5
17	4
18	2
19	2
22	2

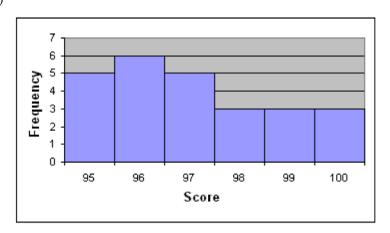
27

)	Measure	Frequency
	95	5
	96	6
	97	5
	98	3
	99	3
	100	3



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29)



- 30) C 31) D 32) D
- 33) B
- 34) C 35) D
- 36) A
- 37) C
- 38) A

39)

Precip.	Frequency	Relative Frequency
0.5-0.9	4	0.10
1.0 - 1.4	2	0.05
1.5-1.9	7	0.175
2.0-2.4	9	0.225
2.5-2.9	2	0.05
3.0-3.4	10	0.25
3.5-3.9	2	0.05
4.0 - 4.4	4	0.10

40)

Commute Time (in min)	Frequency	Relative Frequency
67.0-68.4	6	0.200
68.5-69.9	5	0.167
70.0-71.4	13	0.433
71.5-72.9	2	0.067
73.0-74.4	4	0.133

Util. Bill (dollars)	Frequency	Relative Frequency
33-35	3	0.10
36-38	6	0.20
39-41	6	0.20
42-44	6	0.20
45-47	3	0.10
48-50	6	0.20

Answer Key

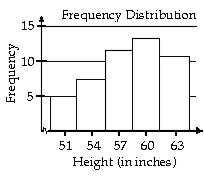
Testname: UNTITLED56

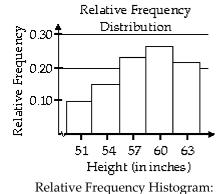
42) a. 95-104, 105-114, 115-124, 125-134, 135-144

b.

Weight (lb)	Tally	Frequency
95-104	11	2
105-114	111	3
115-124	11111	5
125-134	111	3
135-144	11	2

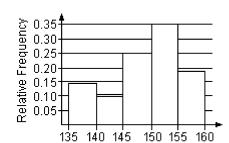
43)





44) Frequency Histogram:

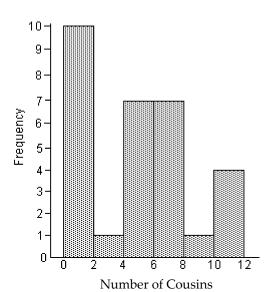
15 140 145 150 155 160 Weight (pounds)



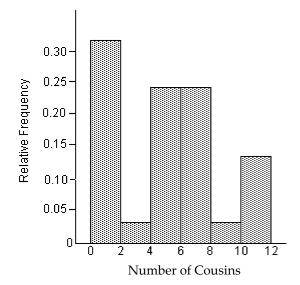
Weight (pounds)

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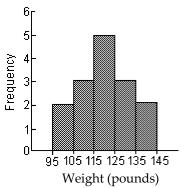




46)



47)



48) B

Answer Key

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49) A
50) 71, 87, 90, 99, 102, 110, 111, 126, 129, 136, 137, 139, 142, 143, 148, 149, 150, 159
51) 5.5, 6.4, 7.0, 7.1, 8.5, 9.2, 9.4, 10.6, 10.9, 11.6, 11.7, 11.9, 12.2, 12.3, 12.8, 12.9, 13.7, 13.9
    0 | 399
    1
    2 | 2
    3 2399
    4 | 29
    5 | 28
    6
    7 | 0
53)
    0 | 0 9 9
    1
    2 | 5
    3
    4
     5 | 6 6
    7
    8 | 8
    9 | 1
    10 2
    11 4
    12 2
    13
    14
    15 0
    16 5
54)
    6 | 77888899999
    7 | 0 0 0 0 0 1 1 1 1 1 1 1 1 2 2 3 3 4 4
55)
    3 | 3556667889
    4 | 0 0 1 1 1 2 2 3 3 3 4 5 5 7 8 8 9
```

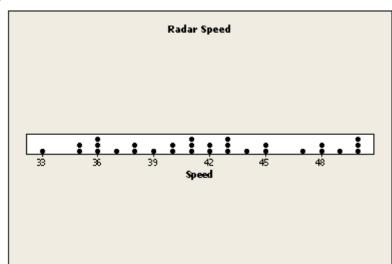
56) The stem will consist of the tens digit and range from 1 to 9. The leaves will be drawn in the appropriate stems based on values.

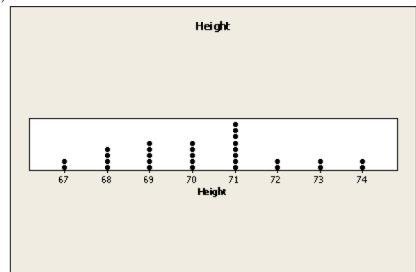
Stem		ear	ve	s			
1	3						
2							
2							
4							
5	1 6	9					
6	6	9					
7	6	7					
8	7	8	5	9	3	8	2
9	1	0	6	5	4		

Answer Key

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- 59) B
- 60) D
- 61) A
- 62) C
- 63) B
- 64) A
- 65) symmetric
- 66) A
- 67) B
- 68) B
- 69) The bar graph is misleading because the vertical axis starts at 60 instead of 0. This tends to indicate that the number of accidents decreased at a faster rate than they actually did. The graph would be less misleading if the vertical scale began at 0 or if a symbol were used to clearly indicate that the vertical scale is truncated and has a gap.
- 70) roughly 3 times larger