E

Download: http://alib Exam	abadownload.com/product/elementary-statistics-a-step-by-step-approach-10t	th-edition-bluman-test-ba
Name		
MULTIPLE CHOICE	Choose the one alternative that best completes the statement or answers the qu	uestion.
1) Which of distributio	he following does not need to be done when constructing a frequency n?	1)
•	the number of classes desired	
•	he range asses that are mutually exclusive	
,	the class width an even number	
Answer: D		
2) The lower	class limit represents the smallest data value that can be included in the c	class. 2)
, A) False	B) True	,
Answer: B		
SHORT ANSWER. V	/rite the word or phrase that best completes each statement or answers the ques	stion.
3) When data	are collected in original form, they are called .	3)
Answer: ra	w data	
4) The	of a specific class is the number of data values contained in it.	4)
Answer: fr	equency	
5) If a freque	ncy distribution had class boundaries of 132.5-147.5, what would be	5)
the class v	vidth?	

Answer: 15

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

Weight (lb)	Frequency			
90-99	1			
100-109	4			
110-119	4			
120-129	3			
130-139	7			
140-149	6			
150-159	4			
160-169	2			
What is the class widt	h?			
A) 11	в) 80	C) 10	D) 9	
Answer: C			·	
7) For the class 5-19, the	upper class limit is			7)
A) 4.5	B) 5	C) 19.5	D) 19	,
Answer: D				
8) What are the boundar	ies of the class 11-18?			8)
A) 11 and 18	B) 10.5 and 18.5	C) 7.5 and 21.5	D) 7	
Answer: B				
SHORT ANSWER. Write the wor	d or phrase that best com	pletes each statement or a	answers the qu	estion.
9) Find the class bounda	ries, midpoint, and widt	th of the class 28-34?		9)
	7.5-34.5; midpoint: 31;			
10) Find the class bounda	ries, midpoint, and widt	h of the class 15.2-18.	1?	10)
	5.15-18.15; midpoint: 1			

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

Class	Frequency	-	-
33-40	3		
41-48	1		
49-55	6		
56-63	6		
64-71	1		
A) class limits ov	erlap	B) there is no percent column	
C) class width is	not uniform	D) a class has been omitted	
Answer: C			
) State the reason wh		cy distribution is incorrectly constructed.	12)
Class	Frequency		
45-50	3		
50-55	0		
55-60	6		
60-65	5		
65-70	3		
A) class limits ov	erlan	B) a class has been omitted	
	-	•	
C) there is no per	-	D) class width is not uniform	
	-	•	
C) there is no per Answer: A	cent column	D) class width is not uniform	13)
C) there is no per Answer: A	cent column y the following frequence	•	13) _
C) there is no per Answer: A 3) State the reason wh	cent column	D) class width is not uniform	¹³⁾ -
C) there is no per Answer: A 3) State the reason wh <u>Class</u>	cent column y the following frequence Frequency	D) class width is not uniform	13) _
C) there is no per Answer: A B) State the reason wh Class 124-129	cent column y the following frequence Frequency 1	D) class width is not uniform	13) _
C) there is no per Answer: A 3) State the reason wh Class 124-129 130-135	cent column y the following frequency <u>Frequency</u> 1 7	D) class width is not uniform	13) _
C) there is no per Answer: A 3) State the reason wh Class 124-129 130-135 142-147	y the following frequence Frequency 1 7 11 14	D) class width is not uniform	13)
C) there is no per Answer: A S) State the reason wh Class 124-129 130-135 142-147 148-153	cent column y the following frequency 1 7 11 14 en omitted	D) class width is not uniform	13)
C) there is no per Answer: A 3) State the reason wh Class 124-129 130-135 142-147 148-153 A) a class has bee	cent column y the following frequency 1 7 11 14 en omitted	D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform	13) _
C) there is no per Answer: A 3) State the reason wh <u>Class</u> 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A	y the following frequence Frequency 1 7 11 14 en omitted cent column requency distribution of t	D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap he average age of high school graduates, what	13) _
C) there is no per Answer: A 3) State the reason wh <u>Class</u> 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A	y the following frequence Frequency 1 7 11 14 en omitted cent column requency distribution of t	 D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap 	
C) there is no per Answer: A 3) State the reason wh Class 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A 4) In an ungrouped fre would be the bound A) 17.5-18.5 year	y the following frequency Frequency 1 7 11 14 en omitted cent column requency distribution of t laries for the class of gra	 D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap he average age of high school graduates, what aduates who were reported to be 18 years old? B) 17.6-19.5 years old 	
C) there is no per Answer: A 3) State the reason wh <u>Class</u> 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A 4) In an ungrouped free would be the bound	y the following frequency Frequency 1 7 11 14 en omitted cent column requency distribution of t laries for the class of gra	 D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap 	
C) there is no per Answer: A 3) State the reason wh <u>Class</u> 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A 4) In an ungrouped free would be the bound A) 17.5-18.5 year	y the following frequency Frequency 1 7 11 14 en omitted cent column requency distribution of t laries for the class of gra	 D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap he average age of high school graduates, what aduates who were reported to be 18 years old? B) 17.6-19.5 years old 	
C) there is no per Answer: A 3) State the reason wh Class 124-129 130-135 142-147 148-153 A) a class has bee C) there is no per Answer: A 4) In an ungrouped fre would be the bound A) 17.5-18.5 year C) 17.6-18.5 year	y the following frequence Frequency 1 7 11 14 en omitted cent column equency distribution of t laries for the class of gra- rs old rs old	 D) class width is not uniform cy distribution is incorrectly constructed. B) class width is not uniform D) class limits overlap he average age of high school graduates, what aduates who were reported to be 18 years old? B) 17.6-19.5 years old 	

16) Greg wants to constru employees at Owen's		ntion for the political af at type of distribution w		16)
A) cumulative Answer: C	B) ungrouped	C) categorical	D) grouped	
17) What is the lower cla	ss limit of the class 13	-17?		17)
A) 15 Answer: D	в) 17	C) 12.5	D) 13	
18) What is the midpoint	of the class 17–20?			18)
A) 1.5 Answer: C	в) 18	C) 18.5	D) 3	
19) What is the upper cla	ss boundary of the clas	ss 23-35 ?		19)
A) 7 Answer: C	в) 7.5	c) 35.5	D) 35	
20) If the limits for a clas A) False Answer: B	s were 20-38, the bour	ndaries would be 19.5-3 B) True	8.5.	20)
SHORT ANSWER. Write the wo	rd or phrase that best cor	mpletes each statement or	answers the question.	
21) For grouped frequenc	y distributions, the	is obtained by	adding the 21)	
lower and upper limit Answer: class midpoin			_	
MULTIPLE CHOICE. Choose the	e one alternative that bes	t completes the statement	or answers the question	٦.
22) What is the lower cla	ss limit in the class 8-1	2?		22)
A) 7.5 Answer: D	в) 8.5	c) 10	D) 8	
23) Which of the followin numbers 11, 14, 9, an	01	would be appropriate for	or grouping the	23)
A) 9-12 and 13-16		B) 9-11 and 14-16		
C) 9-11 and 12-16		D) 8-12 and 12-16	5	
Answer: A				
24) Thirty students record green, hazel, and blac		eyes, choosing from the ppropriately summarized		24)
A) open-ended distr	ibution	B) upper boundary		
C) categorical frequ	ency distribution	D) grouped freque	ncy distribution	

	25) What are the bounda						25)	_
	A) 1.879-3.439	B) 1.865	-3.435	C) 1.82-3.48	8	D) 1.87-3.43		
	Answer: B							
	26) For the class 16.3-23	8.8, the width	is 8.5.				26)	
	A) True			B) False				•
	Answer: B							
SHO	RT ANSWER. Write the wo	ord or phrase th	nat best comple	etes each stater	ment or answ	vers the questic	on.	
	27) When the range is la frequen	rge, and class		veral units in	width are n	eeded, a 2	7)	-
	Answer: grouped							
MUL	TIPLE CHOICE. Choose th	e one alternati	ve that best co	mpletes the sta	atement or a	nswers the ques	stion.	
	28) The cumulative frequ	•		-	encies of th	e classes less	28)	_
	than and equal to the A) True	upper bound	ary of the spe	cific class. B) False				
	Answer: A			b) i uise				
	29) A recent statistics ex distribution with the	•	-	5 scores. Cor	nstruct a gro	ouped frequen	cy 29)	-
	distribution with the		llowil below.					
	63 86 77 51 6	7						
	55 89 63 68 90	6						
	81 82 44 80 90	C						
	77 87 74 91 59	9						
	77 79 45 87 9	7						
	Class Limits	Tally	Frequency					
	41-50	Tany	Trequency					
	51-60							
	61-70							
	71-80							
	81-90							
	91-100							
	A)	E		B)	insta En			
	Class Limits	Frequency		Class L		equency		
	41-50	2		41-5		2		
	51-60	2		51-6		3		
	61-70	5		61-7		4		
	71-80	6		71-8		6		
	81-90	7		81-9		7		
	91-100	3		91-1	00	3		
			5					

C)			D)	
	Class Limits	Frequency	Class Limits	Frequency
	41-50	3	41-50	2
	51-60	2	51-60	3
	61-70	4	61-70	5
	71-80	7	71-80	5
	81-90	6	81-90	6
	91-100	3	91-100	4

Answer: B

Vehicle Type	Frequency
Motorcycle	11
Sedan	60
SUV	80
Truck	39

What is the relative frequency of the Motorcyle category?

A) 0.138	B) 11%	C) 0.058	D) 11
Answer: C			

Vehicle Type	Frequency
Motorcycle	8
Sedan	87
SUV	88
Truck	31

Construct a relative frequency distribution for the data.

A)			B)		
	Vehicle Type	Relative Frequency		Vehicle Type	Relative Frequency
_	Motorcycle	0.037%	_	Motorcycle	0.091
	Sedan	0.407%		Sedan	0.989
	SUV	0.411%		SUV	1
	Truck	0.145%		Truck	0.352
C)			D)		
	Vehicle Type	Relative Frequency		Vehicle Type	Relative Frequency
_	Motorcycle	0.08		Motorcycle	0.037
	Sedan	0.87		Sedan	0.407
	SUV	0.88		SUV	0.411
	Truck	0.31		Truck	0.145

Answer: D

32) A survey was taken on how much trust people place in the information they read on the In 32) Construct a categorical frequency distribution for the data. A trust in all that they read, M

trust in most of what they read, H trust in about one-half of what they read, S trust in a small portion of what they read.

Μ	Н	М	М	Н	М	М	Н	М	S
Н	А	Μ	Η	М	Η	М	Μ	Н	Μ
Н	Μ	Μ	Μ	М	S	М	Μ	А	S
Μ	Н	М	М	М	S	Н	Μ	М	Μ

A)

Class	Frequency
А	2
Μ	22
Н	12
S	4

B)		
	Class	Frequency
	А	2
	М	24
	Η	10
	S	4
		I

C)

Class	Freq	Percent
А	2	5%
Μ	22	55%
Н	12	30%
S	4	<u>10</u> %
	40	100%

Class	Freq	Percent
A	2	5%
Μ	24	60%
Н	10	25%
S	<u>4</u>	<u>10</u> %
	40	100%

Answer: D

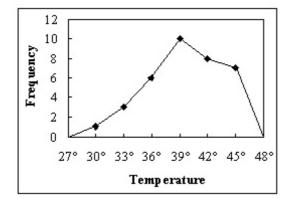
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

33) Construct a frequency polygon from the following frequency distribution.

33)

1	51 50
Temperature	Frequency
28.5-31.5	1
31.5-34.5	3
34.5-37.5	6
37.5-40.5	10
40.5-43.5	8
43.5-46.5	7

Answer:

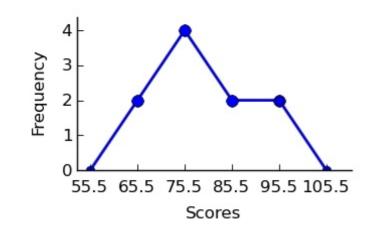


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

34) A recent statistics exam yielded the following 10 scores. Construct a frequency polygon 34)
 distribution using the class limits shown below.

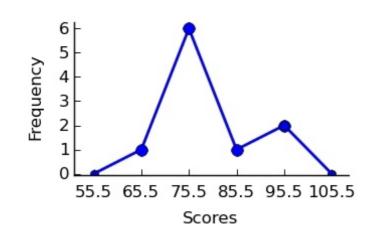
80, 99, 77, 67, 93, 71, 76, 86, 79, 71

Class Limits	Midpoints	Tally	Frequency
61-70			
71-80			
81-90			
91-100			
A)	I	I	I
Frequency		75.5 85.5 Scores	95.5 105.5

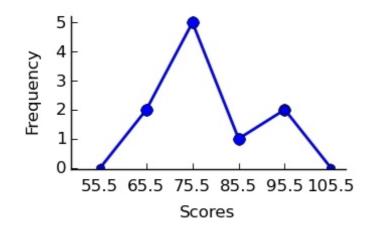


C)

B)

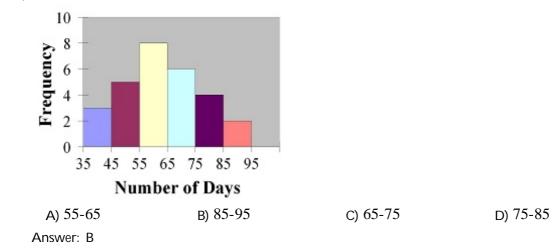


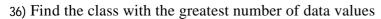
D)

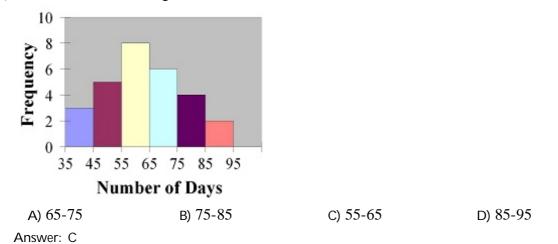




35) Find the class with the least number of data values.





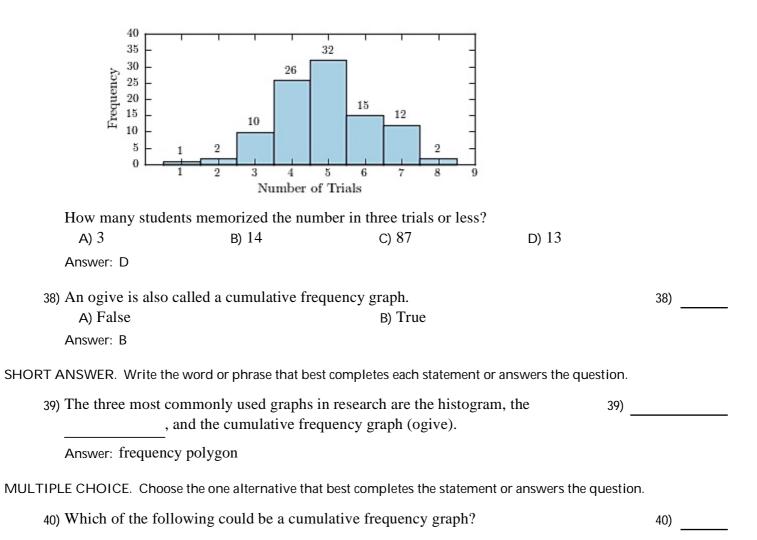


11

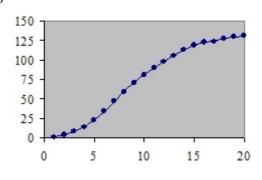
35)

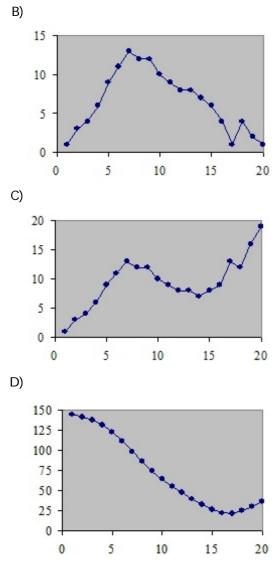
36) _____

37) One hundred students are shown an eight-digit number on a piece of cardboard for three
37) seconds and are asked to then recite the number from memory. The process is repeated
until the student accurately recites the entire number from memory. The following histogr
presents the number of trials it took each student to memorize the number.



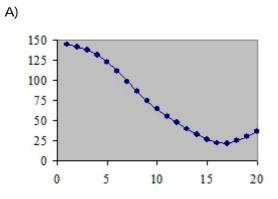
A)



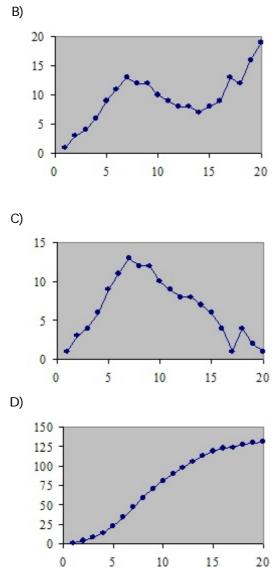


Answer: A

41) Which of the following could be an ogive?



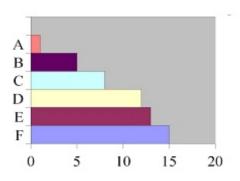
41)



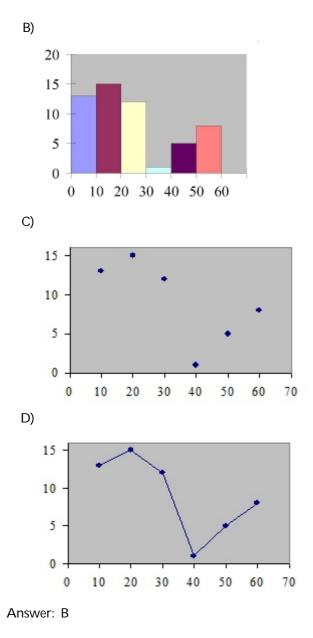
Answer: D

42) Which of the following is a histogram?



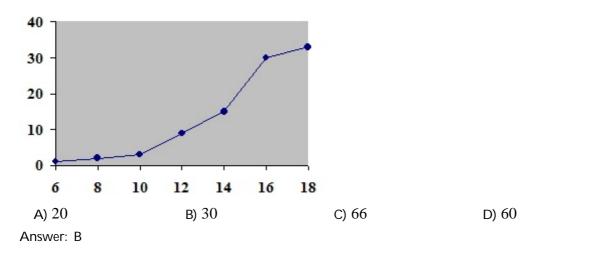


42)



43) The frequency polygon and the	he histogram are two different ways to represent the same	43)
data set.		
A) True	B) False	
Answer: A		
44) For a given data set, the ogive shape.	e and the frequency polygon will have the same overall	44)
A) False	B) True	
Answer: A		

45) Using the ogive shown below, what is the cumulative frequency of data values less than 0 45) _ to 16 ?



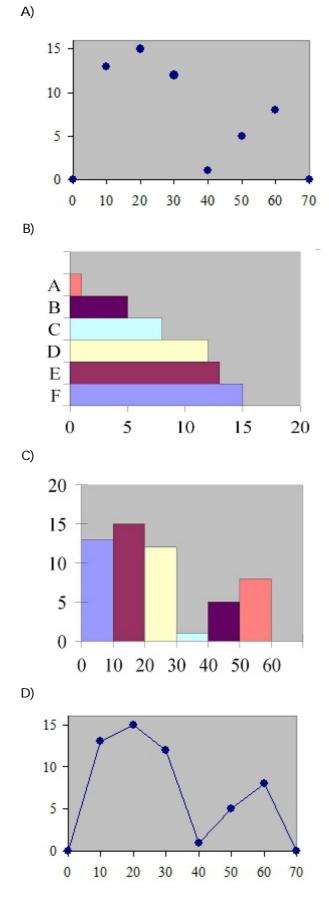
- C) histogram
 Answer: C
 48) The frequency polygon is a graph that displays the data by using lines that connect points 48) ______
 plotted for the frequencies at the midpoints of the classes.
 A) True
 B) False

Answer: A

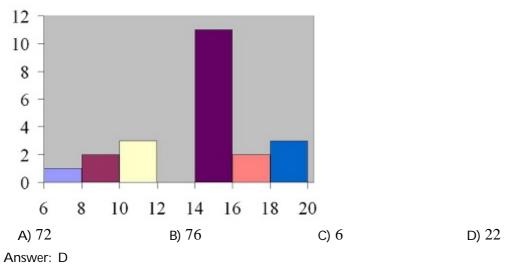
Answer: A

16

50) Which of the following is a frequency polygon?



51) How many values are in the data set whose histogram is shown below ?



52) Given the following frequency distribution, how many pieces of data were less than 28.5? 52)

Class Boundarie	s Frequencies		
13.5-18.5	4		
18.5-23.5	9		
23.5-28.5	12		
28.5-33.5	15		
33.5-38.5	17		
A) 13	в) 12	C) 25	D) 44
Answer: C			

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

 53) If the graph of a frequency distribution has a peak and the data tapers off more
 53)

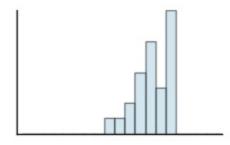
 slowly to the right and more quickly to the left, the distribution is said to be
 53)

Answer: right-skewed

51)

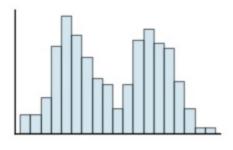
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

54) Classify the histogram as skewed to the left, skewed to the right, or approximately symme 54)



A) skewed to the leftB) skewed to the rightC) approximately symmetricAnswer: A

55) Classify the histogram as unimodal or bimodal.



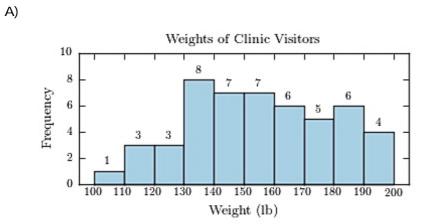
A) unimodal Answer: B

19

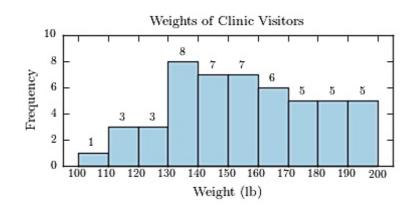
Weights of Clinic Visitors		
Weight (lb)	Frequency	
100 - 109	1	
110 - 119	3	
120 - 129	3	
130 - 139	8	
140 - 149	7	
150 - 159	7	
160 - 169	6	
170 - 179	5	
180 - 189	6	
190 - 199	4	

Construct a frequency histogram.

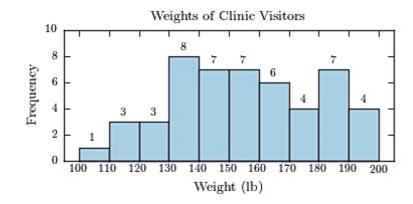
B) bimodal



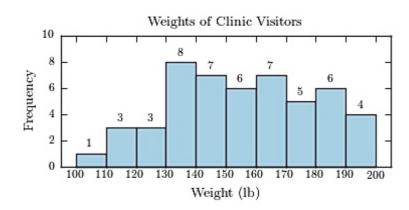
B)



C)



D)



Answer: A

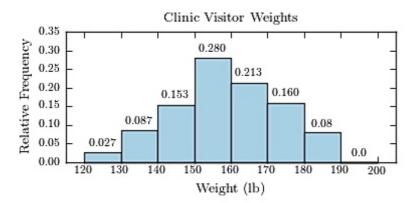
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57) The following frequency distribution presents the weights in pounds (lb) of a sample of 57) visitors to a health clinic.

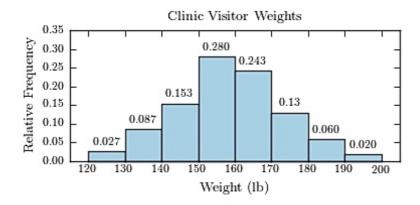
Clinic Visitor Weights		
Weight (lb)	Frequency	
120-129	4	
130-139	13	
140 - 149	23	
150-159	42	
160-169	32	
170-179	24	
180-189	9	
190-199	3	

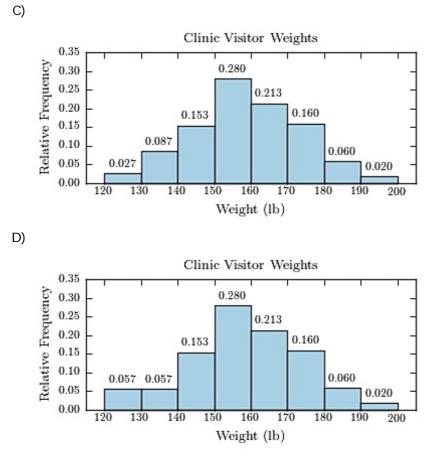
Construct a relative frequency histogram.

A)



B)





Answer: C

58) The following table presents the purchase totals (in dollars) of a random sample of gasolii 58) purchases at a convenience store.

Construct a frequency distribution using a class width of 10, and using 0 as the lower clas for the first class.

76.59	48.55	93.66	60.17	39.10
93.28	65.43	34.12	80.41	77.16
80.07	93.46	39.19	43.84	44.70
68.74	89.98	6.97	52.86	68.93

1	۱)
,	٦y

C)

Convenience Store	Gas Purchases		Convenience Store	Gas Purchas
Amount (dollars)	Frequency		Amount (dollars)	Frequency
0.00-9.99	1		0.00-9.99	1
10.00-19.99	0		10.00-19.99	0
20.00-29.99	0		20.00-29.99	0
30.00-39.99	3		30.00-39.99	4
40.00-49.99	3		40.00-49.99	2
50.00-59.99	1		50.00-59.99	1
60.00-69.99	4		60.00-69.99	4
70.00-79.99	2		70.00-79.99	2
80.00-89.99	3		80.00-89.99	3
90.00-99.99	3	D)	90.00-99.99	3
90.00-99.99 Convenience Store		D)	90.00-99.99 Convenience Store	
Convenience Store		D)		
Convenience Store	Gas Purchases	D)	Convenience Store	Gas Purchas
Convenience Store Amount (dollars)	Gas Purchases Frequency	D)	Convenience Store Amount (dollars)	Gas Purchase Frequency
Convenience Store Amount (dollars) 0.00-9.99	Gas Purchases Frequency 1	D)	Convenience Store Amount (dollars) 0.00-9.99	Gas Purchas Frequency 1
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99	Gas Purchases Frequency 1 0	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99	Gas Purchase Frequency 1 0
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99	Gas Purchases Frequency 1 0 0	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99	Gas Purchase Frequency 1 0 1
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99	Gas Purchases Frequency 1 0 0 3	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99	Gas Purchas Frequency 1 0 1 2
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99	Gas Purchases Frequency 1 0 0 3 3 3	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99	Gas Purchase Frequency 1 0 1 2 3
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99 50.00-59.99	Gas Purchases Frequency 1 0 0 3 3 1	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99 50.00-59.99	Gas Purchase Frequency 1 0 1 2 3 1
Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99 50.00-59.99 60.00-69.99	Gas Purchases Frequency 1 0 0 3 3 1 4	D)	Convenience Store Amount (dollars) 0.00-9.99 10.00-19.99 20.00-29.99 30.00-39.99 40.00-49.99 50.00-59.99 60.00-69.99	Gas Purchase Frequency 1 0 1 2 3 1 4

Answer: A

Construct a relative frequency distribution using a class width of 10, and using 0 as the lo⁻ limit for the first class.

44.52	72.67	51.20	59.41	64.86
98.05	80.24	56.18	51.93	46.17
88.08	46.49	24.48	50.26	36.77
27.61	6.56	22.75	36.65	74.55

Convenience Ste	ore Gas Purchases
Amount (dollars)	Relative Frequency
0.00-9.99	0.050
10.00-19.99	0.000
20.00-29.99	0.150
30.00-39.99	0.100
40.00-49.99	0.150
50.00-59.99	0.250
60.00-69.99	0.050
70.00-79.99	0.100
80.00-89.99	0.100
90.00-99.99	0.050

B)

Convenience Store Gas Purchases				
Amount (dollars)	Relative Frequency			
0.00-9.99	0.050			
10.00-19.99	0.000			
20.00-29.99	0.150			
30.00-39.99	0.100			
40.00-49.99	0.150			
50.00-59.99	0.240			
60.00-69.99	0.060			
70.00-79.99	0.100			
80.00-89.99	0.100			
90.00-99.99	0.050			

Convenience Store Gas Purchases						
Amount (dollars)	Relative Frequency					
0.00-9.99	0.050					
10.00-19.99	0.000					
20.00-29.99	0.150					
30.00-39.99	0.100					
40.00-49.99	0.150					
50.00-59.99	0.250					
60.00-69.99	0.040					
70.00-79.99	0.110					
80.00-89.99	0.100					
90.00-99.99	0.050					

11
$\boldsymbol{\nu}$

Convenience Store Gas Purchases					
Amount (dollars)	Relative Frequency				
0.00-9.99	0.035				
10.00-19.99	0.015				
20.00-29.99	0.150				
30.00-39.99	0.100				
40.00-49.99	0.150				
50.00-59.99	0.250				
60.00-69.99	0.050				
70.00-79.99	0.100				
80.00-89.99	0.100				
90.00-99.99	0.050				

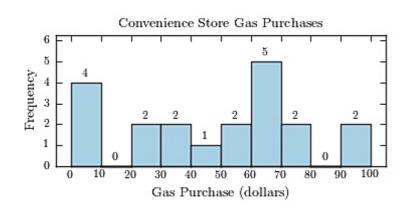
Answer: A

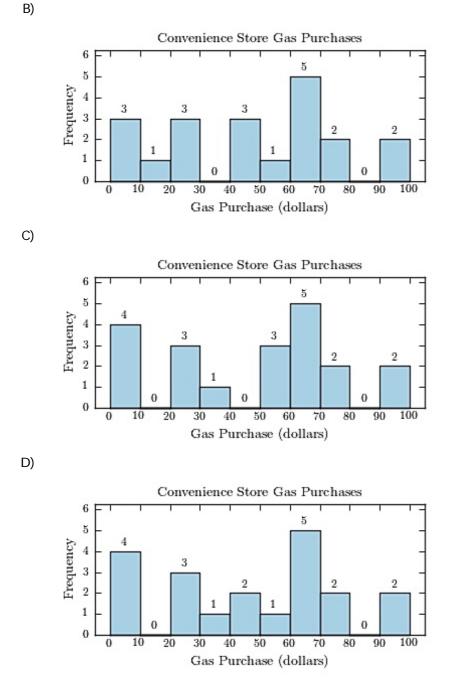
60) The following table presents the purchase totals (in dollars) of a random sample of gasolit 60) purchases at a convenience store.

Construct a frequency histogram using a class width of 10, and using 0 as the lower class the first class.

95	99	4	75	23
26	27	65	68	69
31	7	72	67	46
0	46	1	53	67

A)





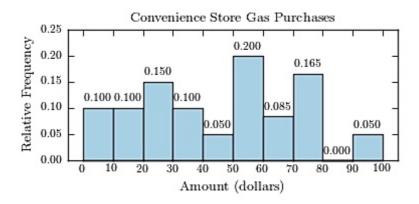
Answer: D

61) The following table presents the purchase totals (in dollars) of a random sample of gasolii 61) purchases at a convenience store.

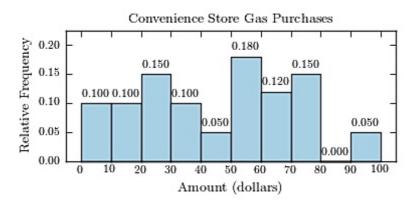
Construct a relative frequency histogram using a class width of 10, and using 0 as the low limit for the first class.

51.13	6.11	36.05	22.27	94.54
49.64	52.78	79.28	51.88	6.29
33.57	53.92	24.91	23.89	79.10
14.86	63.94	15.87	76.44	60.96

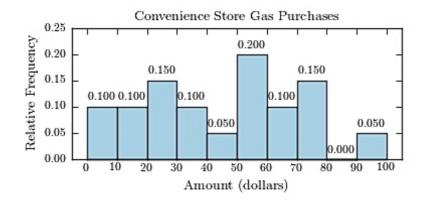
A)

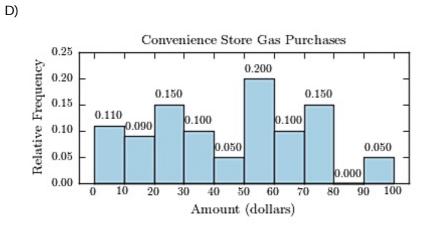


B)



C)





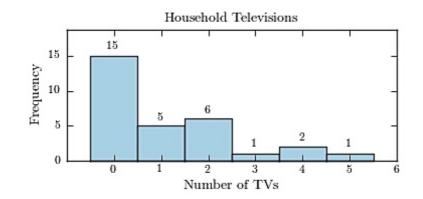


62) Thirty households were surveyed for the number of televisions in each home. Following a 62) results.

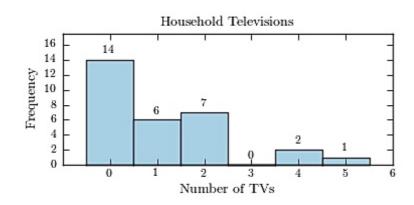
2	2	0	1	1	2	0	0	5	2
4	4	2	1	0	0	0	0	0	0
0	2	0	0	3	1	1	1	0	0

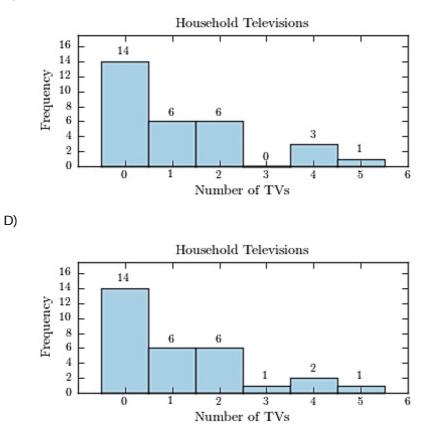
Construct a frequency histogram.

A)



B)





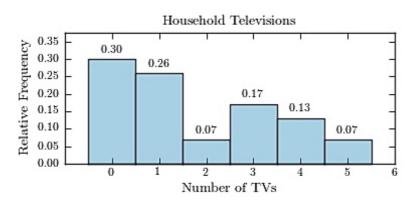


63) Thirty households were surveyed for the number of televisions in each home. Following a 63) results.

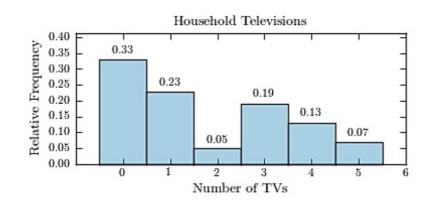
4	0	4	3	0	0	4	1	0	4
0	1	1	0	1	1	5	2	5	1
3	0	3	0	1	0	3	2	3	0

Construct a relative frequency histogram.

A)

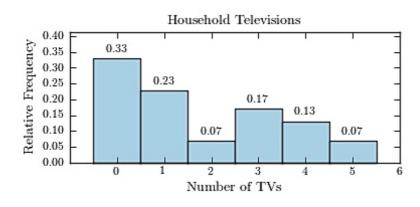


C)

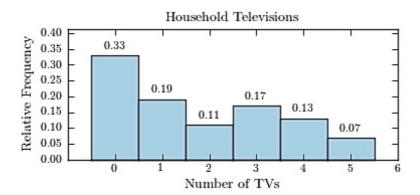


C)

B)



D)



Answer: C

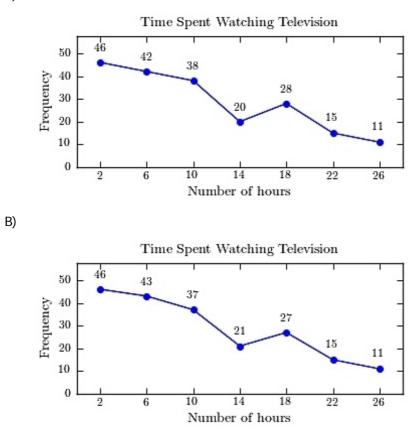
30

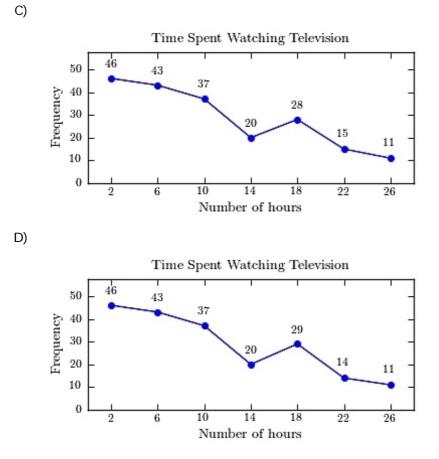
Time Spent Watching Television				
Number of hours	Frequency			
0.0-3.9	46			
4.0-7.9	43			
8.0-11.9	37			
12.0 - 15.9	20			
16.0 - 19.9	28			
20.0-23.9	15			
24.0-27.9	11			

64) A sample of 200 high school students were asked how many hours per week they spend w 64) television. The following frequency distribution presents the results.

Construct a frequency polygon for the frequency distribution.

A)



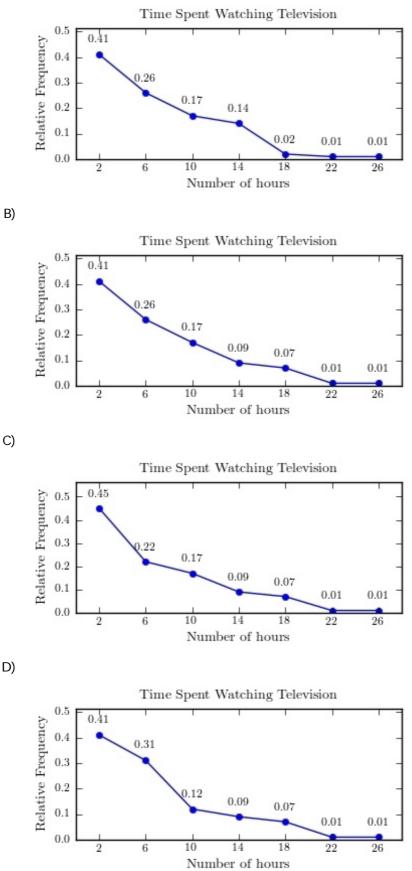




65) A sample of 200 high school students were asked how many hours per week they spend w 65) television. The following frequency distribution presents the results.

Number of hours	Frequency
0.0-3.9	81
4.0-7.9	51
8.0-11.9	34
12.0 - 15.9	17
16.0 - 19.9	13
20.0-23.9	2
24.0-27.9	2

Construct a relative frequency polygon for the frequency distribution.



A)

C)

D)

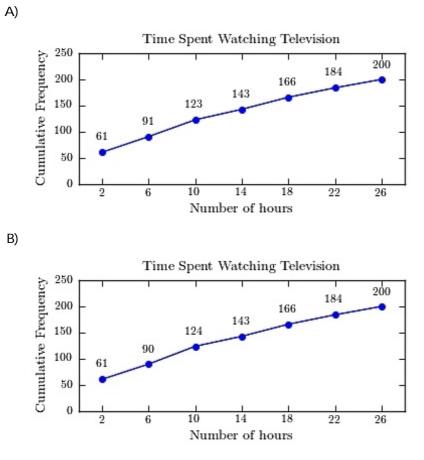
33

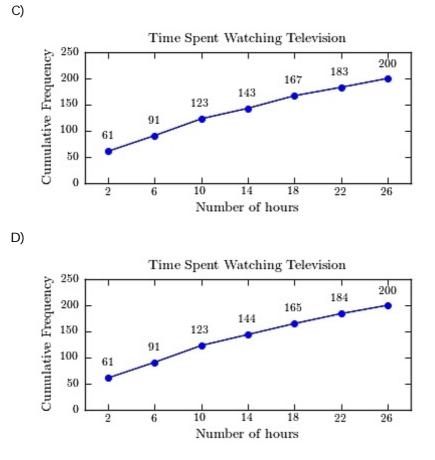
Answer: B

66) A sample of 200 high school students were asked how many hours per week they spend w66) television. The following frequency distribution presents the results.

Time Spent Watching Television	
Number of hours	Frequency
0.0-3.9	61
4.0-7.9	30
8.0-11.9	32
12.0-15.9	20
16.0-19.9	23
20.0-23.9	18
24.0-27.9	16

Construct a frequency ogive for the frequency distribution.



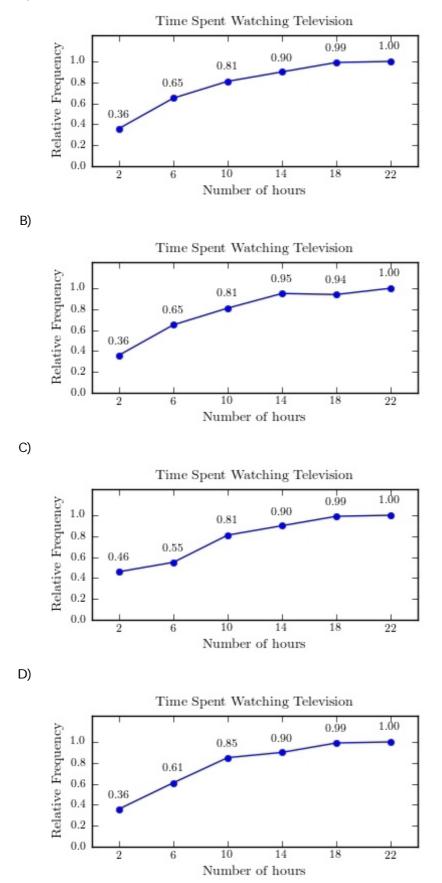


Answer: A

67) A sample of 200 high school students were asked how many hours per week they spend w 67) television. The following frequency distribution presents the results.

Time Spent Watching Television	
Number of hours	Frequency
0.0-3.9	71
4.0-7.9	59
8.0-11.9	32
12.0-15.9	18
16.0-19.9	18
20.0-23.9	2

Construct a relative frequency ogive for the frequency distribution.



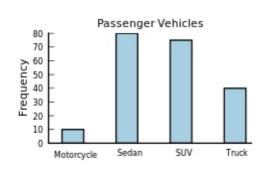
A)

68) The following frequency distribution presents the frequency of passenger vehicles that pathological through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

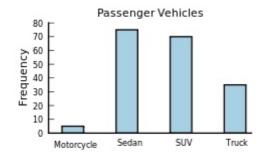
Vehicle Type	Frequency
Motorcycle	5
Sedan	95
SUV	65
Truck	30

Construct a frequency bar graph for the data.

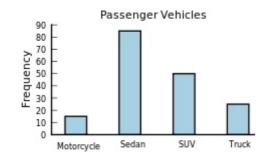


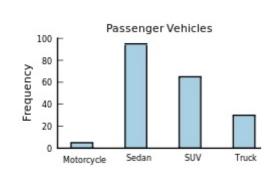


B)



C)

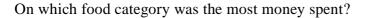


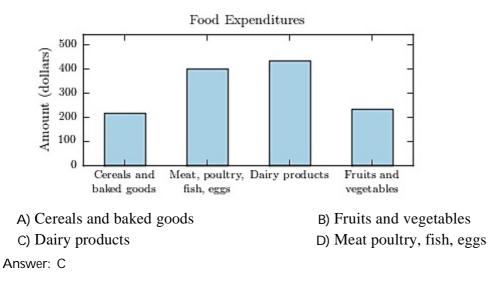


Answer: D

D)

69) The following bar graph presents the average amount a certain family spent, in dollars, on 69) food categories in a recent year.

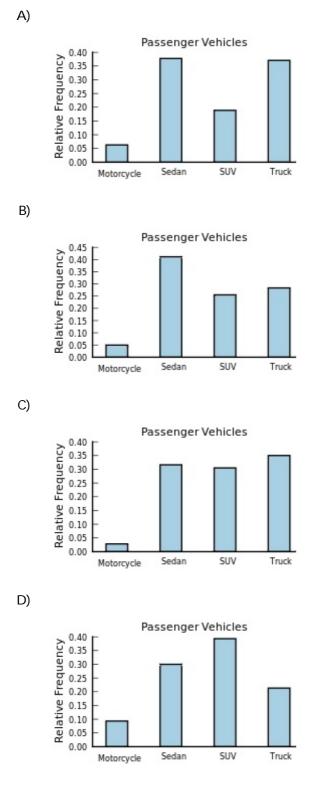




70) The following frequency distribution presents the frequency of passenger vehicles that path 70) through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	9
Sedan	54
SUV	27
Truck	53

Construct a relative frequency bar graph for the data.

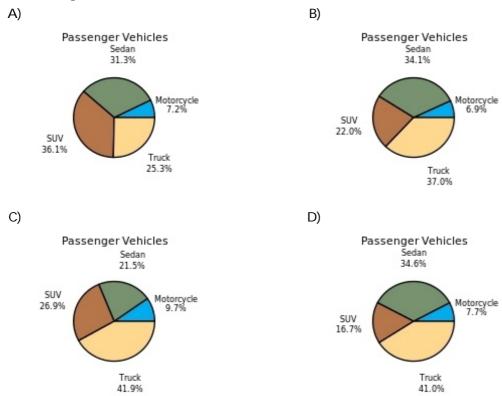




71) The following frequency distribution presents the frequency of passenger vehicles that pather 71) through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

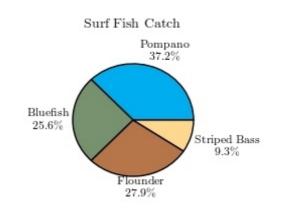
Vehicle Type	Frequency
Motorcycle	9
Sedan	20
SUV	25
Truck	39

Construct a pie chart for the data.

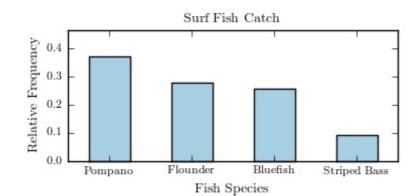


Answer: C

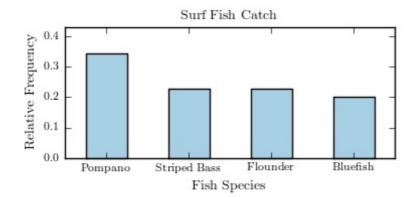
Match this pie chart with its corresponding Parato chart.

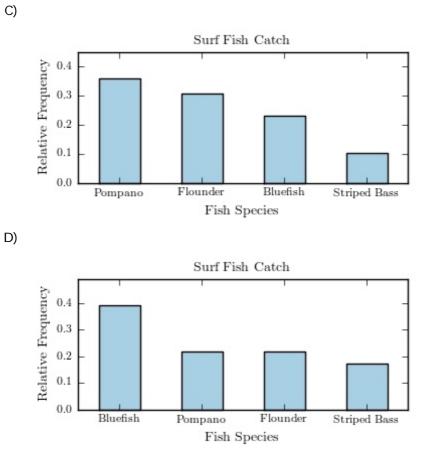


A)



B)





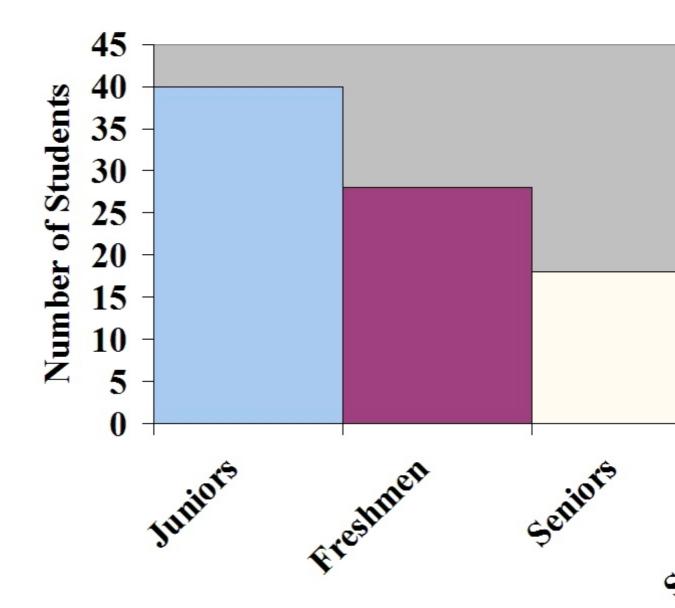


SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

73) Construct a Pareto chart for the following distribution:

73)

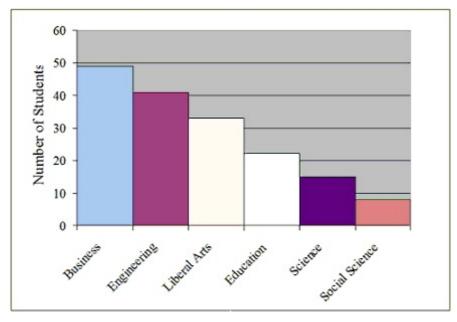
Year in School	Number of Students
Freshmen	28
Sophomores	14
Juniors	40
Seniors	18



73)

<u>Major</u>	Number of Students
Business	49
Science	15
Engineering	41
Social Sciences	8
Liberal Arts	33
Education	22

Answer:

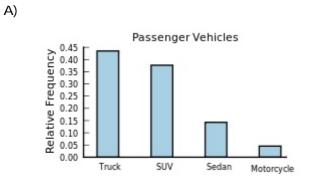


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

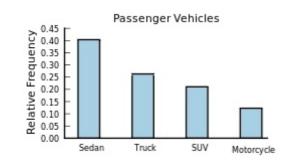
75) The following frequency distribution presents the frequency of passenger vehicles that pa 75) through a certain intersection from 8:00 AM to 9:00 AM on a particular day.

Vehicle Type	Frequency
Motorcycle	14
Sedan	46
SUV	24
Truck	30

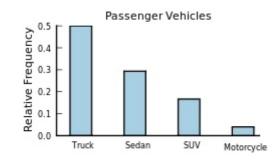
Construct a relative frequency Parato chart for the data.



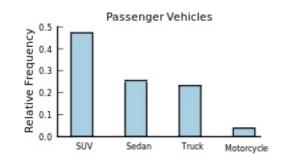
B)



C)



D)



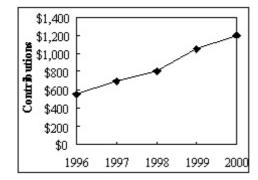


SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

76) A local fundraiser wants to graphically display the contributions he has received o 76) past five years. Construct a time series graph for the following data.

Year	Contributions
1996	\$550
1997	\$700
1998	\$800
1999	\$1050
2000	\$1200

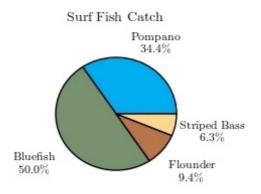
Answer:

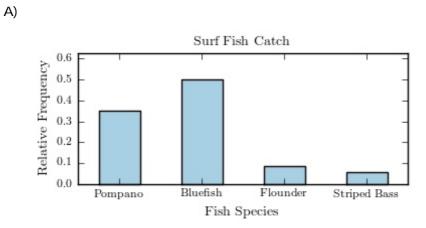


MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

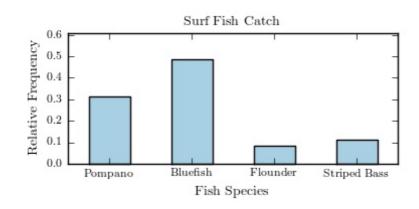
77) The following pie chart presents the percentages of fish caught in each of four ratings cate 77)

Match this pie chart with its corresponding bar graph.

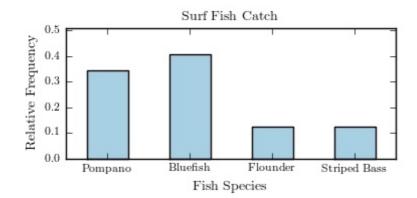




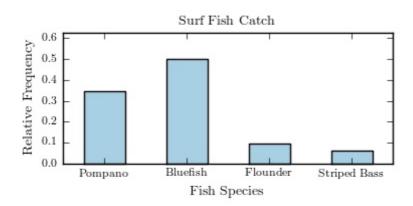
B)





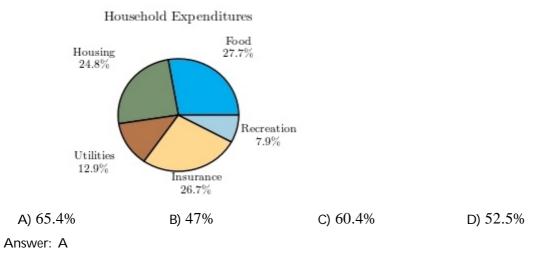


D)



Answer: D

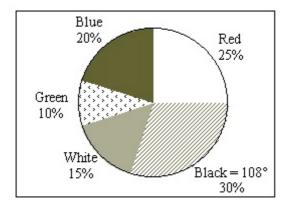
78) Following is a pie chart that presents the percentages spent by a certain household on its f78) largest annual expenditures. What percentage of the money spent was spent on food, hous utilities?



- ESSAY. Write your answer in the space provided or on a separate sheet of paper.
 - 79) The following information shows the colors of cars preferred by customers. Draw a pie graph and inc how many degrees that black represents in a pie graph?

<u>Color</u>	Number
Red	50
Black	60
White	30
Green	20
Blue	40

Answer:



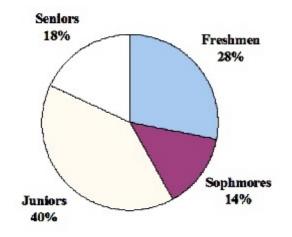
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

80) Construct a pie chart for the following distribution:

80)

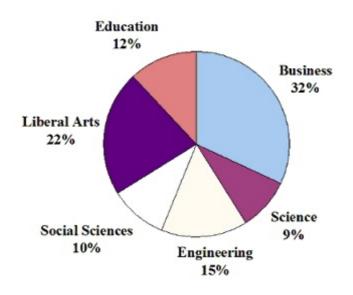
Year in School	Number of Students
Freshmen	28
Sophomores	14
Juniors	40
Seniors	18

Answer:



<u>Major</u>	Number of Students
Business	128
Science	36
Engineering	60
Social Sciences	40
Liberal Arts	88
Education	48

Answer:



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

82) Karen is constructing a pie graph to represent the number of hours her classmates do			
homework each da	ay. She found that 8 of	24 classmates did home	ework for three hours
each day. In her pie graph, this would represent how many degrees?			
A) 240°	в) 45°	C) 135°	D) 120°
Answer: D			

82)

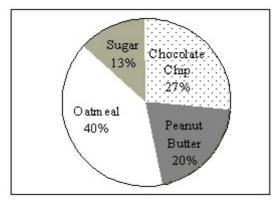
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

83) Construct a pie graph using the following data from a local bakery.

83)

<u>Cookie Types</u>	Number Sold
Chocolate Chip	20
Peanut Butter	15
Oatmeal	30
Sugar	10

Answer:



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

84) A weatherman records the amount of rain year. What type of graph should he use to	that fell in Portland, Oregon each day for a show how rainfall changes during the year?	84)
A) time series graph	B) pictograph	
C) Pareto chart	D) pie graph	
Answer: A		
85) A time series graph represents data that oc	ccur over a specific time period.	85)
A) True	B) False	
Answer: A		
 86) A Pareto chart does <u>not</u> have which of the A) frequencies arranged from highest to B) frequencies displayed by the heights C) classes of data are categorical D) quantitative variable on the horizonta Answer: D 	lowest of vertical bars	86)
Allswei. D		
 87) A pie graph is <u>not</u> useful in showing which A) categories that make up the largest presence of the second second	in the distribution	87)
Answer: B		

88)	 A time series graph is useful for which of the for A) representing the changing frequencies of a B) representing the frequencies of the data, so C) representing the cumulative frequencies of D) representing relative frequencies of categories 	data category over a period time rted from largest to smallest the data at a specific time	88)
	Answer: A		
	A time series graph is useful for detecting trend A) True	s that occur over the period of time. B) False	89)
	Answer: A		
	Which graph should be used to represent the fre taken at Highlands Middle School?	quencies with which certain courses a	re 90)
	A) Pareto chart	B) pictograph	
	C) time series graph	D) pie graph	
	Answer: A		
	A pie graph would best represent the number of each day for the past 2 months.	inches of rain that has fallen in Ohio	91)
	A) False	B) True	
	Answer: A		
SHORTA	NSWER. Write the word or phrase that best comple	tes each statement or answers the question	on.
	The percentages of white, wheat, and rye bread is best shown using a graph.	sold at a supermarket each week 9	2)
	Answer: pie		
93)			3)
	students that were enrolled in Statistics for each	of the past ten years.	
	Answer: time series		
94)	The scores on a recent statistics exam are shown	n below. Construct a stem and leaf 9	4)
	for the data.		
	98, 73, 64, 69, 86, 89, 77, 86, 91, 73		
	Answer: 6 4 9		
	7 3 3 7		
	8 6 6 9		
	9 1 8		

95)

95) Given the following two sets of data, draw a back-to-back stem and leaf plot.

A - 12, 22, 22, 24, 34, 31, 26, 35, 27, 39, 49, 10 B - 45, 36, 23, 16, 37, 28, 18, 13, 10, 23, 30, 31 Answer: 2, 0| 1| 0, 3, 6, 8 7, 6, 4, 2, 22| 3, 3, 8

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

96) Construct a stem-and-leaf plot for the following data.

96)

	28	47	19	39	30	54	48	21	58	52				
	36	36	53	63	29	24	43	30	30	46				
A)					B)					C)		D)		
	1	9			-	1 !	9				1 9		1	9
	2	1489				2	1489			1	2 1489		2	1489
	3	00066	5			3 (00066	9		:	3 00669		3	000669
	4	36789)			4	3678			4	4 03678		4	3678
	5	2348				5 5	248			Ę	5 2348		5	2348
	6	3				6 3	33			(5 3		6	3

Answer: D

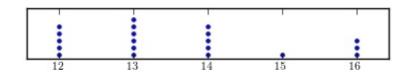
	7.0	7.4	10.4	10.9	9.7	9.3	7.3	8.7	7.1	5.4	6.6	9.3
	9.8	8.9	9.3	7.7	8.4	8.7	8.8	7.3	2.4	2.5	9.6	8.8
A)								E	3)			
	2	45							1	5		-
	3								2			
	4								3			
	5	4							4			
	6	36							E			
	7	014	7						6			
	8	347	7889						7	01	3347	
	9	333	678						8	8 47	7889	
	10	49							9	33	3678	
									10) 49		
C)								C))			
	2	45							- 2	2 45		_
	3								3			
	4								4			
	5	4							5	5 4		
	6	6							6	6 6		
	7	013	34						7	01	3347	
	8	347	77889						8	8 47	7889	
	9	336	78						9	33	3678	
	10	49							10) 49		

Answer: D

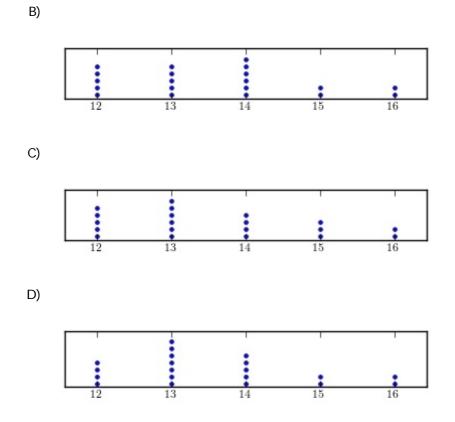
98) Construct a dotplot for the following data.

16	13	14	12	15	13	14	14	12	12
14	13	13	14	12	13	15	14	12	16

A)

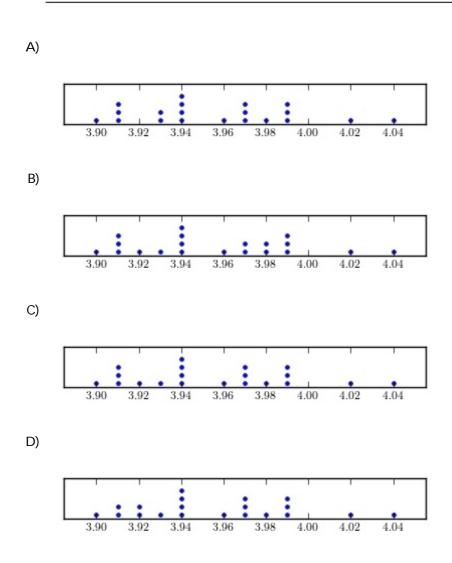


98)



Answer: B

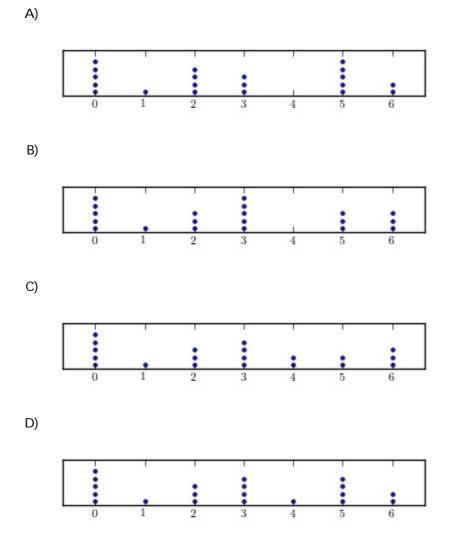
3.99	4.02	3.97	3.94	3.94	3.92	3.91	3.91	3.91	4.04
3.98	3.94	3.96	3.97	3.94	3.99	3.93	3.90	3.97	3.99



Answer: C

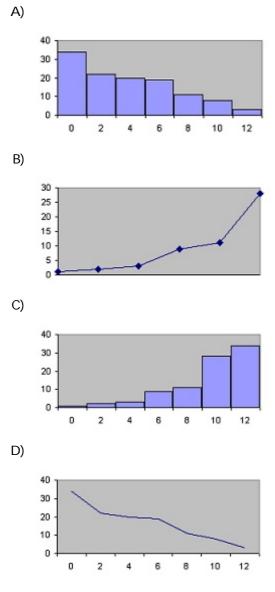
100) Following are the numbers of Dean's List students in a random sample of 20 university co 100) Construct a dotplot for these data.

0	1	0	3	3
2	5	5	0	2
3	5	6	0	3
4	5	2	6	0



Answer: D

101) Which of the following is a Pareto chart?





, 1	ot has the advantage ov le still showing them in	0 1 1	y distribution of retaining	102)
A) False	-	B) True		
Answer: B				
103) An automobile dea July. He sold 72 c used for the conver	ars, 16 of which were c			103)
A) 80°	в) 100°	C) 60°	D) 50°	
Answer: A				

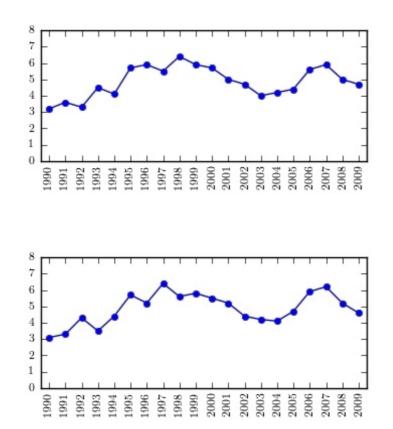
104) If a data set showing types of pizza ordered at a particular restaurant indicates 24 out of 104) 72 orders were for pepperoni pizza, how many degrees would be needed to represent pepperoni pizza in a pie chart? A) 150° D) 90° B) 60° C) 120° Answer: C 105) A Pareto chart is useful for showing percentages of the total at different times. 105) A) True B) False Answer: B 106) What type of graph is the figure below? 106) 30 Number of Students 25 20 15 10 5 0 Science English History Math Art D) ogive A) pie graph B) Pareto chart C) pictograph Answer: B 107) Graphs give a visual representation that may enable readers to analyze and interpret data 107) more easily than simply looking at tables of numbers. A) False B) True Answer: B 108) When making Pareto charts, data should be arranged 108) according to frequency. B) from largest to smallest A) clockwise C) from smallest to largest D) with increasing time Answer: B 109) A Pareto chart arranges data from largest to smallest according to frequencies. 109) A) True B) False Answer: A 110) When two sets of data collected over specific periods of time are compared on the same 110) graph using two lines, it is called a compound time series graph. A) False B) True Answer: B

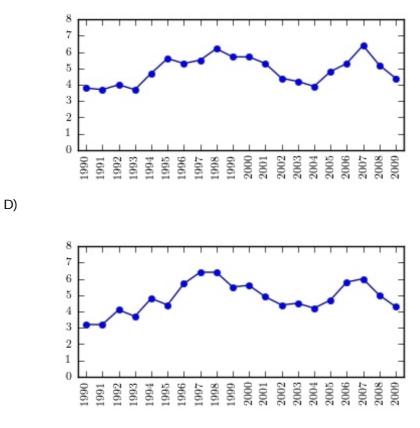
Year	Percent Growth	Year	Percent Growth
1990	3.1	2000	5.5
1991	3.3	2001	5.2
1992	4.3	2002	4.4
1993	3.5	2003	4.2
1994	4.4	2004	4.1
1995	5.7	2005	4.7
1996	5.2	2006	5.9
1997	6.4	2007	6.2
1998	5.6	2008	5.2
1999	5.8	2009	4.6

111) The following table presents the rate of population growth of a suburb of Atlanta, Georgia 111) __________ of the years 1990 through 2009. Construct a time-series plot of the growth rate.

A)

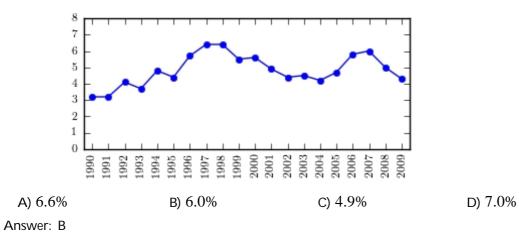
B)





Answer: B

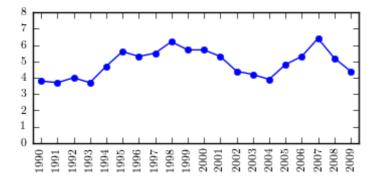
112) The following time-series plot presents the population growth (in percent) of a suburb of 112) Atlanta, Georgia for each of the years 1990 through 2009. Estimate the rate of growth in 2007.



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113) The following time-series plot presents the population growth (in percent) of a suburb of 113) Atlanta, Georgia for each of the years 1990 through 2009. Estimate the amount by which the rate of growth changed from 1993 to 1995.



A) about 2.9 percentage pointsC) about 1.4 percentage points

B) about 2.1 percentage pointsD) about 3.0 percentage points

Answer: B