Name			
Name			

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

Use the given frequency distribution to find the

- (a) class width.
- (b) class midpoints of the first class.
- (c) class boundaries of the first class.

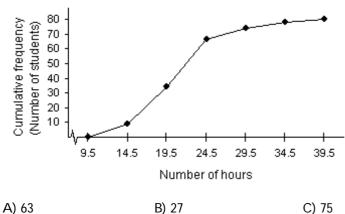
1)	Mile	s (per day)				1)
	Class	Frequency, f				
_	1 - 2	9	•			
	3 - 4	22				
	5 - 6	28				
	7 - 8	15				
	9 - 10	4				
	A) (a) 2	<u>)</u>	B) (a) 1	C) (a) 2	D) (a) 1	
	(b) 1	1.5	(b) 1	(b) 1	(b) 1.5	
	(c) ().5-2.5	(c) 1-2	(c) 1-2	(c) 0.5-2.5	

Provide an appropriate response.

2) Use the ogive below to approximate the cumulative frequency for 24 hours.

2)

Leisure Time of College Students



D) 17

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

Use the given frequency distribution to construct a cumulative frequency distribution and an ogive.

3) Miles (per day)

Class	Frequency, f
1 - 2	9
3 - 4	22
5 - 6	28
7 - 8	15
9 - 10	4

3) __

	13 14 14 15	Weigl Class 5 - 13 0 - 14 5 - 15 5 - 15	F 39 14 19 54	reque 6 4 11 15 8	ncy, 1	<u>f</u> _							4)
Γhe hei	ghts ((in in	ches)	of 30	adul	t mal	es are	liste	ed belo	OW.			
70 67 69	72 71 71	71 70 68	70 74 67	69 69 73	73 68 74	69 71 70	68 71 71	70 71 69	71 72 68				
							ution five c			frequenc	y distribu	ution, and a cumulative	5)
	6) Co	nstru	ct a fı	reque	ncy h	istog	ram u	sing	five cl	asses.			6)
	7) Co	nstru	ct a r	elativ	e frec	quenc	y hist	ogra	m usir	ng five cla	asses.		7)
8) Construct a frequency polygon using five classes.							8)						
	9) Co	nstru	ct a o	give ι	using	five	classes	S.					9)
Provide 1	0) Th	e data	a belo	w rep	reser							ndults over a 35-year trends shown.	10)
						965	1985		1990	1995	2000		

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

For the given data, construct a frequency distribution and frequency histogram of the data using five classes. Describe the shape of the histogram as symmetric, uniform, negatively skewed, or positively skewed.

11) Data set: systolic blood pressures of 20 randomly selected patients at a blood bank

4.41		
11)		

 135
 120
 115
 132
 136
 124
 119
 145
 98
 110

 125
 120
 115
 130
 140
 105
 116
 121
 125
 108

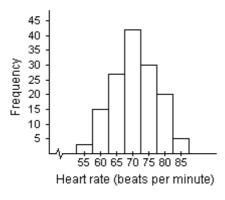
- A) symmetric
- C) negatively skewed

- B) positively skewed
- D) uniform

Provide	an	an	nro	oriat	te res	sponse.
ITOVIAC	an	uρ	PiU	priai	ic ic.	ponso

12) Use the histogram below to approximate the mean heart rate of adults in the gym. 12)

Heart Rates of Adults



A) 70

B) 70.8

C) 1425.7

D) 31.6

13) The scores of the top ten finishers in a recent golf tournament are listed below. Find the mode score. 13)

71 67 67 72 76 72 73 68 72 72

A) 76

B) 73

C) 72

D) 67

14) A student receives test scores of 62, 83, and 91. The student's final exam score is 88 and homework score is 76. Each test is worth 20% of the final grade, the final exam is 25% of the final grade, and the homework grade is 15% of the final grade. What is the student's mean score in the class?

A) 76.6

B) 90.6

C) 80.6

D) 85.6

Approximate the mean of the grouped data.

Weight (in pounds)|Frequency

Weight (in pounds)	rrequeries
135-139	5
140-144	14
145-149	13
150-154	7
155-159	11

A) 10

B) 150

C) 148

D) 146

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

Provide an appropriate response.

16) Why do data entries need to be ordered before the median can be found?

16) _____

14)

15)

17) What is the difference between using μ and \overline{x} to represent a mean?

17) _____

18) In a random sample, 10 studer to school to the nearest tenth o standard deviation and varian	of a mile. The data is liste	-	•	
1.1 5.2 3.6 5.0 4.8 1.8 2.	.2 5.2 1.5 0.8			
MULTIPLE CHOICE. Choose the one a	alternative that best com	pletes the statement or ar	nswers the question.	
19) SAT verbal scores are normall the Empirical Rule to determin				19)
·	•		D) 68%	
20) A competency test has scores very data shows that the distribution lie?			_	20)
A) Between 80 and 84 C) Between 76 and 88		B) Between 78 and 86 D) Between 74 and 90		
21) The average IQ of students in distribution is roughly bell-sh an IQ above 120.	naped. Use the Empirical	Rule to find the percentag	ge of students with	21)
A) 13.5% B)	3) 2.5%	C) 15.85%	D) 11.15%	
22) Adult IQ scores have a bell-sh Use the Empirical Rule to find A) 68% B	the percentage of adults	s with scores between 70 a		22)
SHORT ANSWER. Write the word or p	phrase that best complete	es each statement or answ	vers the question.	
23) The cholesterol levels (in milli box-and-whisker plot that rep	•	adults are listed below. I	Oraw a 23)	
154 156 165 165 170 171 189 189 190 192 195 198 205 205 211 215 220 220	198 200 200 200			
MULTIPLE CHOICE. Choose the one a	alternative that best com	pletes the statement or ar	nswers the question.	
24) Many firms use on-the-job trayou work in the personnel depto program, and you have bee final test that was given to all tand 2, respectively, and the distrainee in question received as A) z = -0.91	partment of a firm that ju in requested to review the trainees. The mean and s stribution of scores is bel score of 69. Compute the	est finished training a group e performance of one of the standard deviation of the t II-shaped and symmetric. e trainee's z-score.	up of its employees ne trainees on the est scores are 74	24)

25) The	chole	stero	l level	ls (in	millig	grams	per o	decili	ter) of	30 adults are	listed below. Find the percentile	25)
that	corre	spon	ds to d	chole	sterol	level	of 19	5				
tilat	00110	эроп	45 (6 (011010	310101		0,	0.				
154	156	165	165	170	171	172	180	184	185			
189	189	190	192	195	198	198	200	200	200			
205	205	211	215	220	220	225	238	255	265			
A)	12				B)	33				C) 58	D) 50	
SHUDT VIEW	WED	\//rit	o tho	word	lorni	hraca	that	hast (romn	lotos oach state	ement or answers the question.	
JI ION I ANSV	VLIX.	VVIII	e ii ie	WUIU	i oi pi	ili asc	triat	DESI (Jonnp	ietes eaci i state	ernerit or answers the question.	
26) Λ sti	ıdant	's sco	ra on	tha S	ΛT_1	nlace	man	t toct	for H	S history is in	the 90th percentile. 26) _	
· · · · · · · · · · · · · · · · · · ·						•				•	title votil percentile. 20) _	
Wha	it can	you (conclu	nde al	oout t	ne st	udent	's tes	t scor	e ⁻ ?		