Test Bank for Fundamental Statistics for the Social and Behavioral Sciences 1st Edition by Tokunaga ISBN 1483318796 9781483318790

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Chapter 2 Examining Data: Tables and Figures

REASONS FOR EXAMINING DATA

- 1. Which of these is a reason why researchers examine the data they have collected?
 - a. to test their research hypotheses
 - b. to calculate measures of central tendency and variability
 - c. to detect outliers
 - d. to draw inferences about populations

Ans: C

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Why Examine Data Question

Type: MC

- 2. Which of these is NOT a reason why researchers examine data they have collected?
 - a. to evaluate their research methodology
 - b. to assess the shape of the distribution of scores
 - c. to detect outliers
 - d. to prove their research hypotheses

Ans: D

Learning Objective: 2-1

Cognitive Domain: Application

Answer Location: Why Examine Data Question

Type: MC

- 3. Which of these is NOT a reason why researchers examine data they have collected?
 - a. to evaluate their research methodology
 - b. to assess the shape of the distribution of scores
 - c. to detect outliers
 - d. to draw inferences about populations

Ans: D

Learning Objective: 2-1

Cognitive Domain: Application

Answer Location: Why Examine Data Question

Type: MC

- 4. Which of these is a reason why researchers examine data by creating tables and figures?
 - a. to prove their research hypotheses
 - b. to define their independent and dependent variables
 - c. to detect outliers
 - d. to draw conclusions about populations

Ans: C

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Examining Data Using Figures

Question Type: MC

- 5. Which of these is a reason why researchers examine data by creating tables and figures?
 - a. To test hypotheses about populations
 - b. To evaluate their research methodology
 - c. To determine whether their research hypotheses are skewed
 - d. To assess their understanding of the research literature

Ans: B

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Why Examine Data Question

Type: MC

- 6. Which of these is NOT a reason why researchers examine data by creating tables and figures? a. To identify outliers
 - b. To get an initial look at their data
 - c. To evaluate their research methodology
 - d. To prove their research hypotheses

Ans: D

Learning Objective: 2-1

Cognitive Domain: Application

Answer Location: Examining Data Using Figures Question

Type: MC

- 7. Which of these is a reason why researchers examine data by creating tables and figures?
 - a. To calculate inferential statistics
 - b. To defend their research hypotheses
 - c. To gain an initial understanding of their data
 - d. To identify their independent and dependent variables

Ans: C

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Examining Data Using Figures Question

Type: MC

8. Which of these is a reason why researchers examine data by creating tables and figures?

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- To test their research hypotheses a.
- b. To define their population
- To figure out which variable is the independent variable c.
- To understand the shape of the distribution d.

Ans: D

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Examining Data Using Figures Question

Type: MC

- 9. Which of these is a reason why researchers examine data by creating tables and figures?
 - To prove a research hypothesis
 - To determine whether the population is skewed b.
 - To identify the modality of a distribution c.
 - d. To decide whether a variable is measured at the interval or ratio scale Ans: C

Learning Objective: 2-1

Cognitive Domain: Knowledge

Answer Location: Examining Data Using Figures

Ouestion Type: MC

SELECTING APPROPRIATE FIGURE BASED ON LEVEL OF MEASUREMENT

- 10. On the first day of class, students are asked to describe their plans after college (grad school, work, etc.); a _____ would be used to illustrate their responses to this question. frequency polygon a. normal distribution b. histogram c. bar chart d. Ans: D Learning Objective: 2-4 Cognitive Domain: Analysis Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question Type: MC 11. You would use a _____ to illustrate data for the variable "Number of brothers". a. bar chart b. histogram c. frequency polygon d. pie chart Ans: B Learning Objective: 2-4 Cognitive Domain: Application Answer Location: Displaying interval and ratio variables: histograms and frequency polygons Question
- 12. You ask people to indicate the number of television sets in their residence (home, apartment, etc.). You would use a to illustrate the data for this variable.
 - frequency polygon a.

Type: MC

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b.

histogram

c.	bar chart
d.	pie chart
Ans: B	
Learning Objecti	ive: 2-4
Cognitive Doma:	in: Application
Answer Location	n: Displaying interval and ratio variables: histograms and frequency polygons Question
Type: MC	
13. You would u	ise a to illustrate data for the variable "Number of cars per driver". a. bar chart
b. histogram	
c. frequency	polygon
Ans: B	
Learning Objecti	
Cognitive Doma:	
Answer Location Type: MC	n: Displaying interval and ratio variables: histograms and frequency polygons Question
Type. MC	
	se a to illustrate data for the variable "Cost per vehicle". a. pie graph
b. bar chart	
c. histogram	
Ans: C	
Learning Objecti	
Cognitive Doma	
	n: Displaying interval and ratio variables: histograms and frequency polygons Question
Type: MC	
15. You would u	ise a to illustrate data for a variable measured at the scale of measurement. a
pie graph; in	
	polygon; nominal
c. histogram	
d. bar chart;	nominal
Ans: D	
Learning Objecti	
•	in: Comprehension
Answer Location Type: MC	n: Displaying nominal and ordinal variables: bar charts and pie charts Question
	use a to illustrate data for a variable measured at the scale of measurement. a
histogram; in	
	polygon; ordinal
c. pie graph;	
d. bar chart;	rano
Ans: A	ivo: 2.4
Learning Objecti	in: Comprehension
-	11: Comprehension 11: Displaying interval and ratio variables: histograms and frequency polygons Question
Type: MC	i. Displaying file variable variables. Instograms and frequency polygons Question
Jr	

17. You would	use a to illustrate th	ne data for	a variable measured at the scale of
measuremen	nt.		
a.	pie graph; interval		
b.	frequency polygon; ratio		
c.	histogram; nominal		
d.	bar chart; ratio		
Ans: B			
Learning Object			
0	nin: Comprehension		
Answer Locatio Type: MC	n: Displaying interval and	l ratio vari	ables: histograms and frequency polygons Question
Twitter page scale of a. b. c. d. Ans: C Learning Object Cognitive Doma	es. She would use a of measurement. pie graph; interval frequency polygon; nomi histogram; ratio bar chart; ordinal tive: 2-4 ain: Comprehension	_to illustra	s the number of students looking at Facebook or ate this data because this variable is measured at the ables: histograms and frequency polygons Question
FREQUENCY I	DISTRIBUTION TABLE	S AND C	ORRESPONDING FIGURES
NOTE: Questi	ons 19-20 are based on t	he followi	ing frequency distribution table:
Ε	1	0/ E-11 4:	20 17 20/ 17 20/
<u>EII</u>	nployment status f % Cum	1 % Full-ul	me 20 17.2% 17.2%
	Part-time Not employed 42 36.2%	100.0%	
	140t employed 42 30.270	100.070	
	Total	116	100.0%
time; this is a. 54; 63.89 b. 62; 53.89 c. 116; 63.8 d. 54; 46.69	of the sample. 6 6 8%		ribution table, of the sample work part-
Learning Object	tive: 2-2		

Cognitive Domain: Analysis

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Answer Location: What percentage of Type: MC	f the sample	has each value of	of the variable? Question
20. You would use a to illustra graph b. frequency polygon c. histogram	te the data i	n the above frequ	uency distribution table. a. pie
Ans: A			
Learning Objective: 2-4			
Cognitive Domain: Comprehension			
Answer Location: Displaying nomina	l and ordina	l variables: bar c	harts and pie charts Question
Type: MC			
NOTE: Questions 21-22 are based	on the follo	wing frequency	distribution table:
Marital status	f	%	
Single	20		
Married			
Separated/divorced	42		
1			
Total	116	100.0%	
21. Filling in the blanks in the above this is of the sample.	frequency d	istribution table,	of the sample are married;
a. 54; 46.6% b. 62; 53.8%			
c. 116; 63.8%			
d. 54; 63.8%			
e. Cannot be determined with infe	ormation pro	ovided	
Ans: A	-		
Learning Objective: 2-2			
Cognitive Domain: Analysis			
Answer Location: What percentage of	f the sample	has each value of	of the variable? Question
Type: MC			
22. You would use a to illustra graph	te the data i	n the above frequ	uency distribution table. a. pie
b. frequency polygon			
c. histogram			
Ans: A			
Learning Objective: 2-4			
Cognitive Domain: Comprehension	1 1 . 12	1: -1-1 1	Landa and all all all of O and
Answer Location: Displaying nomina	i and ordina	u variabies: bar c	narts and pie charts Question

NOTE: Questions 23-24 are based on the following frequency distribution table:

Type: MC

#	hours		9/	6
worked	per			
week				
> 40	7			
31-40	15			
21-30	19			<u> </u>
11-20	29			
0-10				
Total		86	100.0%	

23. Filling in the blanks in the above frequency distribution table, ____ of this sample work 0-10 hours per week; this is ____ of the sample.

a. 16; .19%

b. 70; 81.8%

c. 16; 18.6%

d. Cannot be determined with information provided

Ans: C

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable?

Question Type: MC

- 24. You would use a _____ to illustrate the data in the above frequency distribution table. a. pie graph
 - b. bar chart
 - c. histogram

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying interval and ratio variables: histograms and frequency polygons Question

Type: MC

NOTE: Questions 25-26 are based on the following frequency distribution table:

Employment status	f	%	
Full-time	20	17.2%	
Part-time	42	36.2%	
Not employed			
Total	116	100.0%	

25. Filling in the blanks in the above frequency distribution table, ____ of this sample are not employed; this is ____ of the sample.

a. 54; 63.8%

b. 62; 53.8%

c. 54; 46.6%

d. 116; 63.8%

e. Cannot be determined with	information prov	vided		
Ans: C				
Learning Objective: 2-2				
Cognitive Domain: Analysis	£411-1		- £ 41: -1-1-0	0
Answer Location: What percentag	ge of the sample i	nas each value	of the variable?	Question
Type: MC				
26. You would use a to illu variable is measured at the a. pie graph; ratio b. frequency polygon; nomina c. histogram; ordinal d. bar chart; nominal	scale of measi	-	uency distribution	on table because the
Ans: D				
Learning Objective: 2-4				
Cognitive Domain: Comprehension	on			
Answer Location: Displaying nom	ninal and ordinal	variables: bar	charts and pie ch	arts Question
Type: MC				
NOTE O U AT AO	1 41 6 11	• 0	31 / 13 / 1	
NOTE: Questions 27-28 are bas		ving frequency	distribution ta	ıble:
Annual salary > \$80000	<u>f</u> 7	<u>%0</u>		
\$60000 - \$80000	,			
\$40000 - \$60000				
\$20000 - \$40000				
\$0 - \$20000	29			
Ψ0 Ψ20000				
Total 86	100.0%			
27. Filling in the blanks in the about and \$20000 a year; this is a. 16; .19% b. 70; 81.8% c. 16; 18.6% d. Cannot be determined with Ans: C Learning Objective: 2-2	_ of the sample.		of this sar	nple make between \$0
Cognitive Domain: Analysis				
Answer Location: What percentag	e of the sample l	has each value	of the variable?	Question
Type: MC				
28. You would use a to illu b. bar chart c. histogram Ans: C	strate the data in	the above freq	uency distribution	on table. a. pie graph
Learning Objective: 2-4				
Cognitive Domain: Comprehension	on			

Answer Location: Displaying interval and ratio variables: histograms and frequency polygons Question Type: MC

NOTE: Questions 29-30 are based on the following frequency distribution table:

Area			%	
code				
408	18			_
415	6			_
510	10			_
650	25			_
925				_
То	tal	69	100.0%	

- 29. Filling in the blanks in the above frequency distribution table, ____ of this sample live in the 925 area code; this is ____ of the sample.
 - a. 10; .15%
 - b. 15; 10.0%
 - c. 10; 14.5%
 - d. Cannot be determined with information provided

Ans: C

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable?

Question Type: MC

- 30. You would use a _____ to illustrate the data in the above frequency distribution table.
 - a. pie graph or frequency polygon
 - b. bar chart or histogram
 - c. histogram or frequency polygon
 - d. bar chart or pie graph

Ans: D

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 31-32 are based on the following frequency distribution table:

<u>Candidate</u>	<u>f</u>	<u>%</u>
Candidate A	48	39.0%
Candidate B	7	
Candidate C		
Total	123	100.0%

31. Filling in the blanks in the above frequency	distribution table,	of the students predicted
Candidate C will win the election; this is	of the sample.	

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- a. 68; .55%
- b. 68; 55.3%
- c. 75; 61.0%
- d. Cannot be determined with information provided

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 32. You would use either a to illustrate the data in the above frequency distribution table.
 - a. pie graph or frequency polygon
 - b. bar chart or pie graph
 - c. histogram or frequency polygon
 - d. bar chart or histogram

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 33-34 are based on the following frequency distribution table:

SAT Math score	f	%
600-800	31	22.3%
401-600	56	
200-400		
Total	139	100.0%

- 33. Filling in the blanks in the above frequency distribution table, ____ students had SAT Math scores between 200 and 400; this is ____ of the sample.
 - a. 37; 40.3%
 - b. 52; 37.4%
 - c. 52; .37%
 - d. Cannot be determined with information provided

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 34. You would use either a _____ to illustrate the data in the above frequency distribution table. a. pie graph or frequency polygon
 - b. bar chart or pie graph
 - c. histogram or frequency polygon
 - d. bar chart or histogram

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying interval and ratio variables: histograms and frequency polygons Question

Type: MC

NOTE: Questions 35-36 are based on the following frequency distribution table:

Plans after college	f	%
Work full-time	29	
Work part-time Go to grad school Not sure	15 	22.1%
Total	86	100.0%

- 35. Filling in the blanks in the above frequency distribution table, _____ students are 'not sure' of their plans after finishing college; this is _____ of the sample.
 - a. 20; 23.2%
 - b. 23; 26.8%
 - c. 42; 48.8%
 - d. Cannot be determined with information provided

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

36. You would use a _____ to illustrate the data in the above frequency distribution table. a.

frequency polygon

- b. bar chart
- c. histogram
- d. none of these is correct

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 37-38 are based on the following frequency distribution table:

# drinks		%
3 or less	15	13.2%
4	12	10.5%
5	21	18.4%
6	22	19.3%
7	10	8.8%

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	8 9 or more	-	9.6%
_	Total	114	100.0%

37. Filling in the blanks in the above frequency distribution table, _____ people consumed 9 or more drinks; this is _____ of the sample.

a. 35; 10.5%

b. 23; 20.2%

c. 12; 30.7%

d. Cannot be determined with information provided

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

38. You would use a _____ to illustrate the data in the above frequency distribution table. a. pie chart

- b. normal distribution
- c. histogram
- d. bar chart

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying interval and ratio variables: histograms and frequency polygons Question

Type: MC

NOTE: Questions 39-40 are based on the following frequency distribution table:

Meal	f	%
Breakfast	8	13.6%
Lunch	31	
Dinner		
Total	59	100.0%

39. Filling in the blanks in the above frequency distribution table, _____ people selected 'Dinner'; this is _____ of the sample.

a. 20; 33.9%

b. 20; 86.4%

c. 39; 52.5%

d. 59; 33.9%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: W Type: MC	What percentage of	f the sample	has each valu	ue of the variable? Question
variable is meas a. frequency po b. bar chart; nor c. histogram; in d. pie graph; rat Ans: B	ured at thes lygon; ordinal minal terval .io			requency distribution table because the
Learning Objective:				
Cognitive Domain:	_	1	1 1-1 1-	
Type: MC	nspiaying nomina	i and ordina	ii variabies: b	ar charts and pie charts Question
Type. Wie				
NOTE: Questions	41-42 are based	on the follo	wing freque	ncy distribution table:
	Meal	f	%	_
	Breakfast	8	13.6%	
	Lunch	I	Dinner 20	
				_
	Total	59	100.0%	
a. 31; 52.5% b. 31; 86.4% c. 28; 47.5% d. 59; 52.5%	ample.			
Ans: A				
Learning Objective:	2-2			
Cognitive Domain:	Analysis			
Answer Location: W	1	f the sample	has each value	ue of the variable?
Question Type: MC				
	ured at thes lygon; ordinal minal terval			requency distribution table because the
Ans: B				
Learning Objective:				
Cognitive Domain:	_			
Answer Location: D Type: MC	Displaying nomina	i and ordina	ıı varıables: b	ar charts and pie charts Question

NOTE: Questions 43-44 are based on the following frequency distribution table:

Day of Week	f	%
Monday	76	13.6%
Wednesday 91	F	riday
Total	279	100.0%

- 43. Filling in the blanks in the above frequency distribution table, _____ people chose 'Friday'; this is _____ of the sample.
 - a. 112; 40.1%
 - b. 112; 72.8%
 - c. 167; 32.6%
 - d. 279; 40.1%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable?

Question Type: MC

- 44. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ scale of measurement.
 - a. frequency polygon; ordinal
 - b. bar chart; nominal
 - c. histogram; interval
 - d. pie graph; ratio

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 45-46 are based on the following frequency distribution table:

Day of Week	f	%
Monday	76	13.6%
Wednesday		
Friday	112	
Total	279	100.0%

- 45. Filling in the blanks in the above frequency distribution table, _____ people chose 'Wednesday'; this is _____ of the sample.
 - a. 91; 32.6%
 - b. 91; 72.8%
 - c. 188; 67.4%

d. 279; 32.6%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 46. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ scale of measurement.
 - a. frequency polygon; ordinal
 - b. bar chart; nominal
 - c. histogram; interval
 - d. pie graph; ratio

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 47-48 are based on the following frequency distribution table:

# phones	f	%
2	9	45.0%
1	4	
0		
Total	20	100.0%

47. Filling in th	e blanks in the above frequency	distribution table,	_ people owned 0 phones; this
represents _	of the sample.		

a. 7; 35.0%

b. 7; 55.0%

c. 13; 20.0%

d. 20; 35.0%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 48. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ scale of measurement.
 - a. frequency polygon; nominal
 - b. bar chart; interval
 - c. histogram; ratio
 - d. pie graph; ordinal

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 49-50 are based on the following frequency distribution table:

# phones	f	%
2	9	45.0%
1		
0	7	
Total	20	100.0%

- 49. Filling in the blanks in the above frequency distribution table, _____ people owned 1 phone; this is _____ of the sample.
 - a. 4; 20.0%
 - b. 4; 55.0%
 - c. 16; 80.0%
 - d. 20; 20.0%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable?

Question Type: MC

- 50. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ scale of measurement.
 - a. frequency polygon; nominal
 - b. bar chart; interval
 - c. histogram; ratio
 - d. pie graph; ordinal

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 51-52 are based on the following frequency distribution table:

Color	f	%
Red	86	40.4%
Yellow 70	Gree	n
Total	213	100.0%

is of th a. 57; 26.8% b. 57; 59.6% c. 156; 32.9% d. 213; 26.8%		frequency di	istribution table, _	people preferred 'Green'; this
Ans: A	. 2. 2			
Learning Objective Cognitive Domain:				
C	•	f the sample	has each value of	the variable? Question
variable is mea a. frequency po b. bar chart; no c. histogram; in d. pie graph; ra Ans: B Learning Objective Cognitive Domain:	sured at thes olygon; ordinal ominal nterval atio 2-4 Comprehension	scale of mea	surement.	ency distribution table because the
NOTE: Questions	s 53-54 are based	on the follo	wing frequency d	listribution table:
	Color	f	%	
	Red	86	40.4%	
	Yellow			
	Green	57		
	Total	213	100.0%	
this isa. 70; 32.9% b. 70; 59.6% c. 143; 67.1% d. 213; 32.9% Ans: A Learning Objective Cognitive Domain: Answer Location: V Type: MC	of the sample. 2-2 Analysis What percentage o	f the sample	has each value of	people preferred 'Yellow'; the variable? Question
	asured at the		_	ency distribution table because the

- a. frequency polygon; ordinal
- b. bar chart; nominal
- c. histogram; interval
- d. pie graph; ratio

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 55-56 are based on the following frequency distribution table:

Fast food	<u>f</u>	%
Hot dog	11	13.6%
Hamburger	24	
Sandwich		14.1%
Pizza		
Total	59	100.0%

- 55. Filling in the blanks in the above frequency distribution table, ______ people selected 'Pizza'; this is _____ of the sample.
 - a. 20; 31.3%
 - b. 20; 68.8%
 - c. 29; 45.3%
 - d. 29; 31.3%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 56. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ scale of measurement.
 - a. frequency polygon; ordinal
 - b. bar chart; nominal
 - c. histogram; interval
 - d. pie graph; ratio

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 57-58 are based on the following frequency distribution table:

Fast food	<u>f</u>	<u>%</u>
Hot dog	11	13.6%
Hamburger	24	

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	Sandwich		14.1%			
	Pizza					
	Total	59	100.0%	-		
_	% 5%			ble,	people se	elected 'Sandwich';
Learning Obje	ctive: 2-2					
Cognitive Dor						
	ion: What percentage of	of the sample	has each valu	e of the	variable? Que	estion
Type: MC						
b. bar char c. histogra d. pie grap Ans: B Learning Obje Cognitive Dor		al and ordina	ıl variables: ba	r charts	and pie charts	s Question
NOTE: Ques	tions 59-60 are based	l on the follo	wing frequen	-		:
	Baseball			. f 37	% 50.7%	
	Basketball			37 19	30.770	
	Tennis			19	16.4%	
	Soccer				_ 10.470	
				_		
	Total	59	100.0%			
_	% 3% %	ve frequency	distribution ta	ble,	people pl	ayed soccer; this is

Cognitive Domain: Analysis Answer Location: What percentage of t	he sample	has each valu	e of the	variable? Question
Type: MC				
60. You would use a to illustrate variable is measured at the so a. frequency polygon; ordinal b. bar chart; nominal c. histogram; interval d. pie graph; ratio			requenc	ey distribution table because the
Ans: B				
Learning Objective: 2-4 Cognitive Domain: Comprehension				
Answer Location: Displaying nominal a	and ordina	l variables: ba	r charts	and pie charts Question
Type: MC	ina orama	i variables. ba	r charts	and pre charts Question
NOTE: Questions 61-62 are based or	n the follo	wing frequen	-	
Baseball			. f 37	% 50.7%
Basketball			19	30.770
Tennis			19	16.4%
Soccer				_ 10.170
Socca				
Total	59	100.0%	•	
61. Filling in the blanks in the above f other hand, people played a. 12; 26.0% b. 12; 32.9% c. 17; 42.5% d. 17; 23.3% Ans: A Learning Objective: 2-2 Cognitive Domain: Analysis Answer Location: What percentage of to Type: MC	basketbal	l.		
62. You would use a to illustrate variable is measured at the so a. frequency polygon; ordinal b. bar chart; nominal c. histogram; interval d. pie graph; ratio Ans: B Learning Objective: 2-4			requenc	ey distribution table because the

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question Type: MC

NOTE: Questions 63-64 are based on the following frequency distribution table:

Science	<u>f</u>	<u>%</u>
Biology	46	33.1%
Chemistry	44	
Physics		21.6%
Math		
Total	139	100.0%

- 63. Filling in the blanks in the above frequency distribution table, _____ people took a math class; this is of the sample.
 - a. 19; 13.7%
 - b. 19; 45.3%
 - c. 49; 35.3%
 - d. 49; 13.7%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 64. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the ____ level of measurement.
 - a. frequency polygon; ordinal
 - b. bar chart; nominal
 - c. histogram; interval
 - d. pie graph; ratio

Ans: B

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 65-66 are based on the following frequency distribution table:

Science	<u>f</u>	<u>%</u>
Biology	46	33.1%
Chemistry	44	
Physics		21.6%
Math		
Total	139	100.0%

65. Filling in the blank other hand, a. 30; 31.7% b. 30; 45.3% c. 49; 53.2% d. 49; 35.3%		•	istribution tab	le,	people took physics; o	on the
Ans: A						
Learning Objective: 2-2						
Cognitive Domain: Anal	lysis					
Answer Location: What	percentage of t	he sample h	nas each value	of the vari	able? Question	
Type: MC						
off. You would use a variable is measure a. frequency polygo b. bar chart; nomina c. histogram; intervad. pie graph; ratio Ans: B Learning Objective: 2-4 Cognitive Domain: Com Answer Location: Displatype: MC NOTE: Questions 67-6	ed at thele n; ordinal l al al	evel of meas	surement. variables: bar	charts and	pie charts Question	e the
# jo		i the lone	mg rrequenc	y distribut	ion tubic.	
-	3 28		31.5%			
2	2 35					
	1		10.1%			
(10.170			
	,					
Tota	 a1	89	100.0%			
100	41	67	100.070			
67. Filling in the blank of the samp a. 17; 19.1% b. 17; 58.4% c. 26; 29.2% d. 26; 19.1% Ans: A Learning Objective: 2-2 Cognitive Domain: Anal Answer Location: What Question Type: MC 68. You would use a variable is measure a. frequency polygo	lysis percentage of t to illustrated at the	the sample h	nas each value in the above f	of the vari	able?	

- b. bar chart; intervalc. histogram; ratio
- d. pie graph; ordinal

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

NOTE: Questions 69-70 are based on the following frequency distribution table:

# jobs			%
3	28		31.5%
2	35		
1			10.1%
0			
Total		89	100.0%

- 69. Filling in the blanks in this frequency distribution table, ______ people had 1 job; on the other hand, _____ people had 2 jobs.
 - a. 9; 39.3%
 - b. 9; 58.4%
 - c. 26; 49.4%
 - d. 26; 29.2%

Ans: A

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

- 70. You would use a _____ to illustrate the data in the above frequency distribution table because the variable is measured at the level of measurement.
 - a. frequency polygon; nominal
 - b. bar chart; interval
 - c. histogram; ratio
 - d. pie graph; ordinal

Ans: C

Learning Objective: 2-4

Cognitive Domain: Comprehension

Answer Location: Displaying nominal and ordinal variables: bar charts and pie charts Question

Type: MC

GROUPED FREQUENCY DISTRIBUTION TABLES AND REAL LIMITS

71. A table that groups the values of a variable measured at the interval or ratio level of measurement into a small number of intervals is known as a:

- a. percent distribution table
- b. grouped frequency distribution table
- c. cumulative frequency distribution table
- d. cumulative percent distribution table

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 72. Grouped frequency distribution tables are created to summarize data for variables measured at the _____ level of measurement.
 - a. nominal or interval
 - b. nominal or ordinal
 - c. ordinal or ratio
 - d. interval or ratio

Ans: D

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 73. Grouped frequency distribution tables are created to summarize data for variables measured at the level of measurement.
 - a. ordinal or interval
 - b. interval or ratio
 - c. nominal or ordinal
 - d. nominal or ratio

Ans: B

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 74. For which of these variables would you create a grouped frequency distribution table to summarize data you've collected?
 - a. College major
 - b. Year in school
 - c. Type of housing
 - d. Distance from campus (miles)

Ans: D

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

75. For which of these variables would you create a grouped frequency distribution table to summarize data you've collected?

- a. Type of automobile
- b. Miles per gallon (MPG)
- c. Color of automobile
- d. Type of gasoline

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 76. For which of these variables would you create a grouped frequency distribution table to summarize data you've collected?
 - a. Number of calories
 - b. Type of salad dressing
 - c. Favorite restaurant
 - d. Day of week

Ans: A

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 77. For which of these variables would you create a grouped frequency distribution table to summarize data you've collected?
 - a. Type of music
 - b. Quality of video
 - c. Number of downloads
 - d. Favorite singer

Ans: C

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

78. Real limits are:

- a. the values of a variable that fall halfway between the top of one interval and the bottom of the next interval
- b. the smallest value of a variable that would be grouped into a particular interval.
- c. the largest value of a variable that would be grouped into a particular interval.
- d. a small number of intervals that provide the frequencies within each interval. Ans: A

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

79. Real lower limits are:

a. the values of a variable that fall halfway between the top of one interval and the bottom of the next interval.

- b. the smallest value of a variable that would be grouped into a particular level.
- c. the largest value of a variable that would be grouped into a particular interval.
- d. a small number of intervals that provide the frequencies within each interval.

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 80. Real upper limits are:
 - a. the values of a variable that fall halfway between the top of one interval and the bottom of the next interval
 - b. the smallest value of a variable that would be grouped into a particular level.
 - c. the largest value of a variable that would be grouped into a particular interval.
 - d. a small number of intervals that provide the frequencies within each interval.

Ans: C

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 81. The smallest values of a variable that would be grouped into a particular interval are: a. real limits
 - b. real lower limits
 - c. real upper limits
 - d. grouped frequency distribution

Ans: B

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

- 82. The largest values of a variable that would be grouped into a particular interval are: a. real limits
 - b. real lower limits
 - c. real upper limits
 - d. grouped frequency distribution

Ans: C

Learning Objective: 2-2

Cognitive Domain: Knowledge

Answer Location: Grouped Frequency Distribution Tables Question

Type: MC

GROUPED FREQUENCY DISTRIBUTION TABLES (CREATING)

- 83. When creating a grouped frequency distribution table, the number of intervals depends on a. the size of the population
 - b. the difference between the sample and the population
 - c. the distribution of data in the sample

d. arbitrary cutpoints Ans: C
Learning Objective: 2-2
Cognitive Domain: Knowledge Answer Location: Guidelines for creating grouped frequency distribution tables Question
Type: MC
84. Which of the following is <u>not</u> a guideline for creating grouped frequency distribution tables? a. The number of intervals should accurately represent the data b. Intervals should be of equal size c. Intervals should not overlap d. The data should be grouped into randomly created intervals
Ans: D
Learning Objective: 2-2
Cognitive Domain: Comprehension Answer Location: Guidelines for creating grouped frequency distribution tables Question
Type: MC
85. The intervals created for a grouped frequency distribution table should represent the nature of the data as as possible. a. redundantly b. accurately c. arbitrarily
d. simplistically
Ans: B Learning Objective: 2-2
Cognitive Domain: Comprehension
Answer Location: Guidelines for creating grouped frequency distribution tables Question Type: MC
86. Which of the following is true regarding creating intervals for a grouped frequency distribution table? a. The intervals should be of equal size b. The intervals should overlap c. Many of the intervals should have a frequency of zero d. All of the intervals should have the same frequencies
Ans: A
Learning Objective: 2-2
Cognitive Domain: Knowledge
Answer Location: Guidelines for creating grouped frequency distribution tables Question Type: MC
FREQUENCY DISTRIBUTION TABLES (CUMULATIVE PERCENTAGES)
87. Filling in the blanks in this frequency distribution table, the cumulative percent ('Cum %') associated with 3 arrests is

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		# arrests	<u>f</u>	<u>%</u>	Cum %		
	100.0%	4+	1	5.0%	100.0%	Total	20
10	100.070	3	1				
		2	3				
a. 5.0%		1	7	35.0%	75.0%		
b. 20.0%		0	8	40.0%	40.0%		
c. 90.0%	_						

Ans: D

d. 95.0%

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

88. Filling in the blanks in this frequency distribution table, the percentage ('%') for 2 arrests is ______; the cumulative percent ('Cum %') associated with 2 arrests is ______.

# arres	sts f			Cum %
4+	1	5.0%		100.0%
3	1			
2	3			
1	7	35.0%		75.0%
0	8	40.0%		40.0%
Total		20	100.0%	

a. 5.0%; 90.0%b. 15.0%; 90.0%c. 20.0%; 95.0%d. 90.0%; 15.0%

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

89. Filling in the blanks in this frequency distribution table, the cumulative percent ('Cum %') associated with 11th grade is _____.

Total 38 100.0%

a. 15.8%

b. 34.2%

c. 78.9%	Year in school	<u>f</u>	<u>%</u>	Cum %
d. 94.7%	12th	2	5.3%	100.0%
Ans: D	11th	6		
Learning Objective:	10th	7		2-2
Cognitive Domain:	9th	10	26.3%	60.5% Analysis
Answer Location:	8th	13	34.2%	34.2% What

percentage of the sample has each value of the variable? Question Type: MC

90. Filling in the blanks in this frequency distribution table, the percentage ('%') for 10th grade is ______; the cumulative percent ('Cum %') associated with 10th grade is ______.

Year in	f			Cum %
school				
12th	2	5.3%		100.0%
11th	6			
10th	7			
9th	10	26.3%		60.5%
8th	13	34.2%		34.2%
TD . 1		20	100.00/	
Total		38	100.0%	

a. 15.8%; 78.9%

b. 18.4%; 78.9%

c. 34.2%; 94.7%

d. 78.9%; 18.4%

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

91. Filling in the blanks in this frequency distribution table, the cumulative percent ('Cum %') associated with a B grade is _____.

Total 114 100.0%

a. 46.5%

b. 36.8%

c. 60.5%

d. 83.3%

Ans: D

Learning Objective: 2-2

Cognitive Domain:	Grade	<u>f</u>	%	Cum %	_Analysis
Answer Location: What	A	19	16.7%	100.0%	ercentage of
the sample has each valu variable? Question Type:	B	42			of the C
	C	27			1
	D	16	14.0%	22.8%	
92. Filling in the blanks	F	10	8.8%	8.8%	in this frequency distribution
table, the percentage	e ('%') for a C g	grade is _	; the cu	mulative pe	rcent ('Cum %') associated

with a C grade is

Grade	f			Cum %
A	19	16.7%		100.0%
В	42			
C	27			
D	16	14.0%		22.8%
F	10	8.8%		8.8%
Total		114	100.0%	

a. 36.8%; 46.5%

b. 23.7%; 46.5%

c. 60.5%; 83.3%

d. 46.5%; 23.7%

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

93. Filling in the blanks in this frequency distribution table, the cumulative percent ('Cum %') associated with a rating of 'Very good' is _____.

Total 232 100.0%

a. 22.4%

b. 59.5%

c. 63.4%

d. 85.8%

Ans: D

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

94.	Filling in the
	distribution
	a rating of
	cumulative

with a rating of

Rating		<u>f</u>	<u>%</u>	Cum % lanks in this frequency
Excellent		33	14.2%	100.0% table, the percentage ('%') for Good' is; the
Very good	l	52		ercent ('Cum %') associated
Good		86		creent (Cum 70) associated
Fair		41	17.7%	26.3% 'Good' is
Poor		20	8.6%	8.6%
Rating	f			Cum %
Excellent	33	14.2%		100.0%
Very good	52_			
Good	86_			
Fair	41	17.7%		26.3%
Poor	20	8.6%		8.6%

a. 22.4%; 63.4%

b. 37.1%; 63.4%

c. 59.5%; 85.8%

d. 63.4%; 37.1%

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

232

100.0%

Total

Type: MC

95.	Filling in the blanks in this frequency distribution table, the cumulative percent ('Cum %'
	associated with a score of 31-40 is .

		f	%	
Score				Cum %
41-50	17	36.2%		100.0%
31-40	14			
21-30	9			
11-20	4	8.5%		14.9%
0-10	3	6.4%		6.4%
Total		47	100.0%	

a. 29.8%

b. 48.9%

c. 34.0%

d. 63.8%

Ans: D

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

96. Filling in the blanks in this frequency distribution table, the percentage ('%') for a score of 21-30 is ; the cumulative percent ('Cum %') associated with a score of 21-30 is .

	,,,,,,			
Score	f			Cum %
41-50	17	36.2%		100.0%
31-40	14			
21-30	9_			
11-20	4	8.5%		14.9%
0-10	3	6.4%		6.4%
Total		47	100.0%	

a. 29.8%; 34.0%

b. 19.1%; 34.0%

c. 48.9%; 63.8%

d. 34.0%; 19.1%

Ans: B

Learning Objective: 2-2 Cognitive Domain: Analysis

Answer Location: What percentage of the sample has each value of the variable? Question

Type: MC

APA GUIDELINES FOR FIGURES

97. In constructing figures such as bar charts and frequency polygons, the American Psychological

Association (APA) recommends that

- a. figures be numbered using Roman numerals (Figure I, Figure II, etc.)
- b. figures have a square shape, with the same horizontal and vertical dimensions
- c. values along the vertical (Y) axis start with the value of zero (0)
- d. the vertical axis (Y-axis) be divided into 2-3 values of the variable

Ans: C

Learning Objective: 2-3

Cognitive Domain: Knowledge

Answer Location: Drawing Inappropriate Conclusions From Figures Question

Type: MC

- 98. In constructing figures such as bar charts and frequency polygons, the American Psychological Association (APA) recommends that
 - a. figures be numbered using letters (Figure A, Figure B, etc.)
 - b. figures have a rectangular shape, with the length of the horizontal (X) axis greater than the height of the vertical (Y) axis
 - c. labels along the X and Y axes be written in all capital letters (i.e., MALE, FEMALE)
 - d. the vertical axis (Y-axis) be divided into 2-3 values of the variable

Ans: B

Learning Objective: 2-3

Cognitive Domain: Knowledge

Answer Location: Drawing Inappropriate Conclusions From Figures Question

Type: MC

- 99. In constructing figures such as bar charts and frequency polygons, the American Psychological Association (APA) recommends that
 - a. figures be numbered using Arabic numbers (Figure 1, Figure 2, etc.)
 - b. the vertical axis (Y-axis) be divided into 15-20 values of the variable
 - c. labels along the X and Y axes be written in all lower-case letters (i.e., male, female)
 - d. the horizontal (X) axis contains the frequency (f) or percentage (%) of the sample with each value of the variable

Ans: A

Learning Objective: 2-3

Cognitive Domain: Knowledge

Answer Location: Drawing Inappropriate Conclusions From Figures Question

Type: MC

ASPECTS OF DISTRIBUTIONS (MODALITY, SYMMETRY, VARIABILITY)

100. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a.

variability

- b. directionality
- c. symmetry
- d. modality

Ans: B

Learning Objective: 2-5

Cognitive Domain: Knowledge

Answer Location: Examining data: describing distributions Question Type: MC 101. Which of these is not one of the three aspects of distributions discussed in the textbook? a. variability b. frequency c. symmetry d. modality Ans: B Learning Objective: 2-5 Cognitive Domain: Knowledge Answer Location: Examining data: describing distributions Question Type: MC 102. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a. variability b. range c. symmetry d. modality Ans: B Learning Objective: 2-5 Cognitive Domain: Knowledge Answer Location: Examining data: describing distributions Question Type: MC 103. Which of these is not one of the three aspects of distributions discussed in the textbook? a. variability b. representativeness c. symmetry d. modality Ans: B Learning Objective: 2-5 Cognitive Domain: Knowledge Answer Location: Examining data: describing distributions Question Type: MC 104. Which of these is not one of the three aspects of distributions discussed in the textbook? a. symmetry b. variability c. centrality d. modality Ans: C Learning Objective: 2-5 Cognitive Domain: Knowledge Answer Location: Examining data: describing distributions Question Type: MC

105. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a. size

b. variability
c. symmetry
d. modality
Ans: A
Learning Objective: 2-5
Cognitive Domain: Knowledge
Answer Location: Examining data: describing distributions Question
Type: MC
106. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a. symmetry
b. variability
c. methodology
d. modality
Ans: C
Learning Objective: 2-5
Cognitive Domain: Knowledge
Answer Location: Examining data: describing distributions Question
Type: MC
 107. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a. independence b. variability c. symmetry d. modality
·
Ans: A
Learning Objective: 2-5
Cognitive Domain: Knowledge
Answer Location: Examining data: describing distributions Question Type: MC
108. Which of these is <u>not</u> one of the three aspects of distributions discussed in the textbook? a. symmetry
b. variability
c. magnitude
d. modality
Ans: C
Learning Objective: 2-5
Cognitive Domain: Knowledge
Answer Location: Examining data: describing distributions Question
Type: MC
DESCRIPTING DISTRIBUTIONS (MODALITY, SYMMETRY, MADIARILITY)
DESCRIBING DISTRIBUTIONS (MODALITY, SYMMETRY, VARIABILITY)
109. You would use the word in describing a distribution that is, a. bimodal; skewed b. skewed; symmetrical

c. normal; asymmetricald. skewed; asymmetrical		
Ans: D		
Learning Objective: 2-7		
Cognitive Domain: Comprehension		
Answer Location: Symmetry		
Question Type: MC		
110. You would use the word	_ to describe a distribut	tion that is
a. bimodal; normal		
b. skewed; asymmetrical		
c. normal; skewed		
d. flat; bimodal		
Ans: B		
Learning Objective: 2-7		
Cognitive Domain: Comprehension		
Answer Location: Symmetry Question Type: MC		
Question Type. MC		
111. You would use the word	to describe the	of a distribution
a. bimodal; variability	_ 10 00001100 1110	. 01
b. skewed; variability		
c. skewed; symmetry		
d. flat; modality		
Ans: C		
Learning Objective: 2-6		
Cognitive Domain: Comprehension		
Answer Location: Symmetry		
Question Type: MC		
112. You would use the word	to describe the	of a distribution
a. bimodal; modality		or a distribution
b. skewed; variability		
c. skewed; variability		
d. peaked; symmetry		
Ans: A		
Learning Objective: 2-6		
Cognitive Domain: Comprehension		
Answer Location: Modality		
Question Type: MC		
113. You would use the word	to describe the	of a distribution
a. symmetrical; modality		or a distribution
b. peaked; variability		
c. skewed; modality		
d. flat; symmetry		
Ans: B		
Learning Objective: 2-9		

Cognitive Domain: Comprehension
Answer Location: Variability
Question Type: MC
Question Types Are
114. You would use the word to describe the of a distribution a. symmetrical; modality b. skewed; modality c. flat; variability d. bimodal; symmetry
Ans: C
Learning Objective: 2-9
Cognitive Domain: Comprehension
Answer Location: Variability Question
Type: MC
115. You would use the word to describe the of a distribution. a. peaked; modality b. flat; symmetry c. bimodal; variability d. skewed; symmetry Ans: D
Learning Objective: 2-7
Cognitive Domain: Comprehension
Answer Location: Symmetry
Question Type: MC
DESCRIBING DISTRIBUTIONS (HYPOTHETICAL SITUATIONS)
116. After grading an examination, an instructor realizes the exam was much harder than he planned. He realizes this because the shape of the distribution of exam scores is a. positively skewed b. negatively skewed

- c. symmetrical
- d. flat

Ans: A

Learning Objective: 2-8

Cognitive Domain: Application Answer Location: Symmetry

Question Type: MC

- 117. After grading an examination, an instructor realizes the exam was much easier than she planned. She reaches this conclusion because the shape of the distribution of exam scores is a positively skewed
 - b. normal
 - c. negatively skewed
 - d. flat

Ans: C

Learning Objective: 2-8

Cognitive Domain: Application

Answer Location: Symmetry Question

Type: MC

118. After grading an examination, an instructor realizes the exam was much harder than she planned.

She reaches this conclusion because the shape of the distribution of exam scores is a.

bimodal

b. flat

c. skewed

d. normal

Ans: C

Learning Objective: 2-7

Cognitive Domain: Application Answer Location: Symmetry

Question Type: MC

- 119. A researcher asks a sample of people about their attitudes toward same-sex marriage and concludes that most people in her sample are strongly in favor of it, with relatively few people either undecided or against it. She reaches this conclusion because the shape of the distribution is a normal
 - b. flat
 - c. skewed
 - d. bimodal

Ans: C

Learning Objective: 2-6

Cognitive Domain: Application Answer Location: Modality

Question Type: MC

- 120. After grading an examination, an instructor realizes her class is comprised of students who either completely understand the material or do not understand the material at all. She reaches this conclusion because the shape of the distribution of exam scores is a bimodal
 - b. flat
 - c. skewed
 - d. normal

Ans: A

Learning Objective: 2-7

Cognitive Domain: Application Answer Location: Symmetry

Question Type: MC

- 121. A researcher asks a sample of people about their attitudes toward same-sex marriage and concludes people are either strongly in favor of it or strongly opposed, with relatively few people either unsure or indifferent. She reaches this conclusion because the shape of the distribution is a normal
 - b. peaked
 - c. skewed
 - d. bimodal

Ans: D

Learning Objective: 2-6

Cognitive Domain: Application Answer Location: Modality

Question Type: MC

- 122. After grading an examination, an instructor realizes there is a wide range of ability among her students. She reaches this conclusion because the shape of the distribution is a. flat
 - b. skewed
 - c. abnormal
 - d. peaked

Ans: A

Learning Objective: 2-9

Cognitive Domain: Application Answer Location: Variability

Question Type: MC

- 123. A researcher asks a sample of people about their attitudes toward marijuana legalization and concludes people have a wide variety of opinions, and are equally likely to be anywhere between strongly in favor of it to strongly opposed to it. She reaches this conclusion because the shape of the distribution is
 - a. flat
 - b. skewed
 - c. abnormal
 - d. peaked

Ans: A

Learning Objective: 2-9

Cognitive Domain: Application Answer Location: Variability

Question Type: MC

- 124. A panel of judges in a high school science fair have to select the overall winner from a group of contestants. Which of these distributions would make their decision *most* difficult to make? a. peaked
 - b. bimodal
 - c. normal
 - d. flat

Ans: A

Learning Objective: 2-9

Cognitive Domain: Application Answer Location: Variability

Question Type: MC

- 125. A researcher asks a sample of people about a particular politician and concludes the virtually everyone has the same opinion of the politician. She reaches this conclusion because the shape of the distribution is
 - a. peaked
 - b. bimodal
 - c. normal
 - d. flat

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Ans: A

Learning Objective: 2-9

Cognitive Domain: Application Answer Location: Variability

Question Type: MC

DESCRIBING DISTRIBUTIONS (HYPOTHETICAL FIGURES)

126. Which of the following *best* describes the shape of this distribution?



- a. skewed
- b. symmetrical
- c. bimodal
- d. flat

Ans: A

Learning Objective: 2-7

Cognitive Domain: Comprehension Answer Location: Symmetry Question

Type: MC

127. Which of the following *best* describes the shape of this distribution?



- a. skewed
- b. symmetrical
- c. bimodal
- d. asymmetrical

Ans: B

Learning Objective: 2-7

Cognitive Domain: Comprehension Answer Location: Symmetry Question

Type: MC

128. Which of the following does <u>not</u> describe the shape of this distribution?



- a. normal
- b. symmetrical
- c. unimodal

d. skewed

Ans: D

Learning Objective: 2-7

Cognitive Domain: Comprehension Answer Location: Symmetry Question

Type: MC

129. Which of the following best describes the shape of this distribution?



- a. flat
- b. asymmetrical
- c. bimodal
- d. skewed

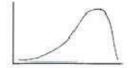
Ans: A

Learning Objective: 2-9

Cognitive Domain: Comprehension Answer Location: Symmetry Question

Type: MC

130. Which of the following does <u>not</u> describe the shape of this distribution?



- a. normal
- b. asymmetrical
- c. unimodal
- d. skewed

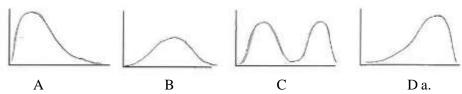
Ans: A

Learning Objective: 2-9

Cognitive Domain: Comprehension Answer Location: Variability

Question Type: MC

131. A pollster finds that people are either strongly in favor of abortion or are strongly opposed. Which of these best describes the distribution of attitudes?



A

b. B

c. C

d. D

Ans: C

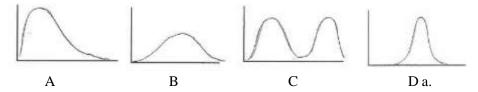
Learning Objective: 2-7

Cognitive Domain: Comprehension

Answer Location: Modality

Question Type: MC

132. A university surveys its students and finds the large majority of students are 'somewhat satisfied' with the education they have received, with only a few students either 'very unsatisfied' or 'very satisfied. Which of these *best* describes the distribution of satisfaction?



A

b. B

c. C

d. D

Ans: D

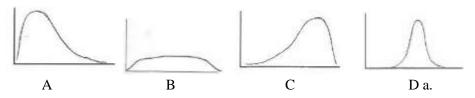
Learning Objective: 2-7

Cognitive Domain: Comprehension

Answer Location: Modality

Question Type: MC

133. A university asks students to indicate their level of satisfaction with their education (from low to high). They find the large majority of students are 'very satisfied' with their education, with relatively few students either 'very unsatisfied' or 'satisfied'. Which of these *best* describes this distribution?



A

b. B

c. C

d. D

Ans: C

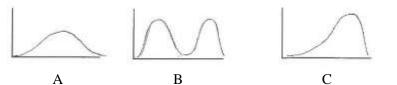
Learning Objective: 2-7

Cognitive Domain: Comprehension

Answer Location: Symmetry Question

Type: MC

134. A judge has been hired to resolve the salary negotiations between a company and its labor union. The great majority of union members have relatively low salaries; however, a small percentage of union members have very high salaries. Which of these *best* describes the distribution of salaries?



D a.

A

b. B

c. C

d. D

Ans: D

Learning Objective: 2-7

Cognitive Domain: Comprehension Answer Location: Symmetry

Question Type: MC

DESCRIBING DISTRIBUTIONS (SETS OF DATA)

135. For the set of data below, pick the choice that *best* describes the shape of the distribution:

- a. normal
- b. bimodal
- c. flat
- d. peaked

Ans: D

Learning Objective: 2-9 Cognitive Domain: Analysis

Answer Location: Variability Question

Type: MC

136. Which of the following best describes the shape of the distribution of these 11 scores?

- a. bimodal
- b. peaked
- c. skewed
- d. symmetrical

Ans: D

Learning Objective: 2-7 Cognitive Domain: Analysis

Answer Location: Symmetry Question

Type: MC

137. Which of the following *best* describes the shape of the distribution?

9, 4, 1, 6, 9, 8, 11, 9, 8, 9, 7

- a. skewed
- b. bimodal
- c. symmetrical
- d. flat

Ans: A

Learning Objective: 2-7 Cognitive Domain: Analysis Answer Location: Symmetry

Question Type: MC

138. Which measure of central tendency would be the <u>most</u> appropriate for this distribution?

- a. variance
- b. median
- c. standard deviation
- d. mean

Ans: B

Learning Objective: 2-5

Cognitive Domain: Comprehension Answer Location: Symmetry Question

Type: MC

139. Which of the following *best* describes the shape of the distribution?

- a. skewed
- b. bimodal
- c. symmetrical
- d. flat

Ans: B

Learning Objective: 2-6 Cognitive Domain: Analysis

Answer Location: Modality Question

Type: MC

140. Which measure of central tendency would be the <u>most</u> appropriate for this distribution?

- a. variance
- b. median
- c. standard deviation
- d. mode

Ans: D

Learning Objective: 2-5

Cognitive Domain: Comprehension Answer Location: Modality Question

Type: MC

141. Which of the following *best* describes the shape of the distribution?

4, 13, 18, 4, 6, 2, 4, 6, 4, 8

- a. skewed
- b. bimodal
- c. symmetrical
- d. flat

Ans: A

Learning Objective: 2-7 Cognitive Domain: Analysis

Answer Location: Symmetry Question

Type: MC

142. Which measure of central tendency would be the *most* appropriate for this distribution?

4, 13, 18, 4, 6, 2, 4, 6, 4, 8

- a. variance
- b. median
- c. mean
- d. skewness

Ans: B

Learning Objective: 2-5

Cognitive Domain: Comprehension Answer Location: Symmetry

Question Type: MC