# Test Bank for Statistical Reasoning for Everyday Life 4th

## **Edition Bennett Briggs Triola 0321817621 9780321817624**

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#### Chapter 2 (Measurement in Statistics) Exam, form A

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

	<b>Identif</b>	y the	following	variables a	as either	qualitative or	quantitative	in #1	and #2
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Identify	y th	e following variab	les as either qualit	ative or quantitat	ive in #1 and #2.
	1)	The state in which peo	ple live.		
		A) Qualitative		B) Quantitative	
,	2)	The size of your house			
		A) Qualitative		B) Quantitative	
Identify	y th	e number as eithe	r continuous or di	screte in #3 and #4	4.
-			all freshmen entering co		
		A) Continuous	_	B) Discrete	
4	4)	The number of eggs in	a goose nest is 8.		
		A) Continuous		B) Discrete	
Determ	ine	which of the four	levels of measurer	nent is most appr	opriate.
			es Fahrenheit of the oce		-
		A) Ratio	B) Interval	C) Ordinal	D) Nominal
Two st	ate	ments are given	in #6. Select the	statement for w	hich a ratio of the
		_	. State "Neither" o		
(	6)	1 - Kasheta ran the rac	e in 22.3 sec, and Louis	a ran the same race in	26.4 sec.
		2 - Juan gets out of sch	nool at 2:45 PM, and A	ito gets out of school a	nt 3:15 PM.
		A) Kasheta ran the ra	ace in 22.3 sec, and Lou	isa ran the same race	in 26.4 sec.
		B) Neither			
		C) Both			
		D) Juan gets out of s	chool at 2:45 PM, and A	Aito gets out of school	at 3:15 PM.
Select t	he o	description that m	ost completely clas	ssifies the given va	riable in #7.
,	7)	Soft drink sizes: small,	medium, large		
		A) Qualitative, nomina	ıl	B) Quantitative, ordin	ıal
		C) Quantitative, ordina	al, discrete	D) Qualitative, ordina	ıl
;		A digital scale reads 0 made on this scale as r		Identify the potential	error in the measurements
		A) Random		B) Systematic	
9		Totals are determined systematic.	l by rounding to tent	hs. Identify the poter	ntial error as random o
		A) Random		B) Systematic	
		90% of the student boo	ly of 2870 students agreem periods". If 2578 s	e that no student shoul	andomly selected students ld have to take final exams , then what is the absolute
		A) 5 students		B) 287 students	
		C) 0.17%		D) 292 students	

11)							car is trav tive error?	eling 70 mi	iles per hour; you	had the
	A) 5 r	nph		B) 7.1	%		C) 7.7%		D) 0.929	
12)	cm. Ç techni	Quality cians m	control	randoml	ly select h. Their	ts one o	of the part	s, and four	nnufactured part i different quality n, 5.11259 cm, 5.	control
	A) 5.3	3234		B) 5.1	1259		C) 5.351		D) 5.45	
13)	-		th a met t divisio		that ha	s grams	as the sma	llest divisio	n, a scale with m	illigrams
	A) v	vill guai	antee m	easurem	ents tha	t are mo	re accurate	, but not ned	cessarily more pre	cise.
	B) v	vill guaı	antee m	easurem	ents tha	t are mo	re precise a	and more ac	curate.	
	C) v	vill guar	antee m	easurem	ents tha	t are mo	re precise,	but not nece	essarily more accu	rate.
	D) v	vill not g	guarante	ee measu	rements	that are	more accu	rate or more	e precise.	
14)	report	ed that	they had		ing bing	e (more			s. Of these stude vening) in the pas	
	A) A	About 60	5.358%	of colleg	ge studer	nts indul	ged in bing	ge drinking l	ast month.	
		Of the 23 ast mon		21 colleg	e studen	its in the	country, 1	5,565,212 ii	ndulged in binge o	lrinking
	C) A	About 63	5% of co	ollege stu	ıdents ir	idulge ir	n binge drin	ıking.		
	D) A	About 65	5% of co	ollege stu	ıdents ir	dulged	in binge dri	inking in the	e past month.	
15)	Conve	ert <u>হ</u> to	a perce	nt.						
	A) 31	.25%		B) 0.3	125%		C) 3.125%	)	D) 0.03125%	
16)	Conve	ert -0.45	to a pe	rcent.						
	A) -4	5%		B) -0.	0045%		C) -4.5%		D) 0.45%	
17)	an ave	rage of	\$70 per	course o	n books	. What i	s the percei		Mathematics major between the two percent)?	
	A) 64	%		B) 399	%		C) -64%		D) -39%	
18)	How 1	nuch le		boy's a					end an average of girl's expenditur	
	A) 61	%		B) 158	3%		C) -158%		D) 39%	
19)	'Statis	tics Te	xt Index		er, roun				100 in 2000. Whehe 2000 edition	
	A) 20	.0		B) 200	0.0		C) 50.0		D) 2.0	
20)	A part	of the	CPI is g	iven belo	w:					
	Year	1975	1980	1985	1990	1995				
=	CPI	53.8	82.4	107.6	130.7	152.4	_			
	Suppo	se a we	ek's gro	oceries in			What wou	ld these gro	oceries cost, to the	nearest
	uonar,	, 10 yea	rs later?							

#### Chapter 2 (Measurement in Statistics) Exam, form B

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

Id

<b>Identify tl</b>	ne following variables a	s either qualit	ative or quan	titative in #1 and #	2.
1)	A person's height in feet.				
	A) Qualitative		B) Quantitative		
2)	A person's political affiliatio	n.			
	A) Qualitative		B) Quantitative		
<b>Identify</b> tl	ne number as either disc	crete or contir	nuous in #3 an	nd #4.	
3)	The number of books availab	le from Amazon.	com is 227,362.		
	A) Discrete		B) Continuous		
4)	An athlete runs 100 meters in	10.7 seconds.			
	A) Discrete		B) Continuous		
Determine	e which of the four level	s of measurer	nent is most a	ppropriate in #5.	
	Ages of survey respondents.				
	A) Ratio B) In	terval	C) Ordinal	D) Nominal	
Two state	ements are given in #	6. Select the	statement fo	r which a ratio o	of the
measuren	ients is meaningful. Sta	te "Neither" o	r "Both" if ap	opropriate.	
6)	1 - Kim pulled weeds at the minute.	rate of twenty we	eeds per minute,	and Jorge pulled 18 we	eds per
	2 – Anna Lisa swam 45 yaro	ls underwater, and	d Marissa swam 3	35 yards underwater.	
	A) Anna Lisa swam 45 yard	ls underwater, and	d Marissa swam 3	35 yards underwater.	
	B) Kim pulled weeds at the minute.	e rate of twenty w	eeds per minute,	and Jorge pulled 18 wee	eds per
	C) Neither				
	D) Both				
Select the	description that most c	ompletely clas	sifies the give	en variable in #7.	
7)	Preference ratings: as in "R importance a 1"	ate the item of	most importance	to you a 5 and that of	of least
	A) Qualitative, ordinal		B) Quantitative,	ordinal	
	C) Quantitative, ordinal, disc	rete	D) Qualitative, n	ominal	
8)	A computer uses voice recog random error.	nition software. I	dentify a misinter	rpreted word as a systen	natic or
	A) Systematic		B) Random		

9)	Identify the potential e systematic.	error in recording arriva	al times for interstate h	ighway trips as random or
	A) Systematic		B) Random	
10)	The size of an e-mail final absolute error?	ile is stated as 210 kB,	but the file size is actual	ally 220.5 kB. What is the
	A) 5%	B) 10%	C) 10.5 kB	D) -10.5 kB
11)	The pickup time of an a What is the relative error		t at 5 rings, but the mac	hine picks up after 4 rings.
	A) -1 ring	B) 4 to 6 rings	C) -25%	D) -20%
12)	The approximate value values is the most preci		hich of the following e	experimentally determined
	A) 3.14	B) 3.247	C) 3.412114	D) 3.3245
13)	Compared with a stop readings as second		dings as seconds	s, a stopwatch that gives
	A) more accurate, bu	t not necessarily more	precise.	
	B) more precise and	more accurate.		
	C) not necessarily me	ore precise or more acc	urate.	
	D) more precise, but	not necessarily more ac	ccurate.	
14)		e 61 m by 31 m. She	reported that there we	ter of lawn and measured ere 208,010,000 blades of
	A) correctly represen	ts her measurements.		
	B) is less than her me	easurements warrant.		
	C) could be greater if	f she used a more precis	se calculator.	
	D) is excessive given	her measurements.		
15)	Convert 13% to decima	al form.		
	A) 0.013	B) 0.13	C) 1.3	D) 13
16)	Convert 5.65 to a perce	ent.		
	A) 565%	B) 5.65%	C) 0.565%	D) 56.5%
17)				cigarettes and 61% of 7th the absolute increase, to the
	A) 77%	B) 336%	C) 436%	D) 47%
18)				9% of persons 60-65 years older group, to the nearest
	A) 76 points	B) 319 points	C) –46 points	D) 46 points

- 19) Suppose that the cost of a statistics text was \$55 in 1985 and is \$90 in 2000. What is the 'Statistics Text Index' number, rounded to the nearest tenth, for the 1985 edition with the 2000 price as the reference value?
  - A) 0.6
- B) 163.6
- C) 1.6
- D) 61.1

20) A part of the CPI table is given below:

Year	1975	1980	1985	1990	1995
CPI	53.8	82.4	107.6	130.7	152.4

Suppose an actuary's salary was \$86,000 in 1995. What would the salary have to have been in 1975 if it had just kept up with inflation (round to the nearest \$1000)?

- A) \$244,000
- B) \$30,000
- C) \$58,000
- D) \$128,000

#### Chapter 2 (Measurement in Statistics) Exam, form C

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

<b>Identify</b>	, the	following	variables a	as either	quantitative or	· analitative	in #1	and #2
<u>tuenin</u> y	unc	TOHOWINE	, vai iadics <i>c</i>	as citiici	quaninanye vi	. yuantanyt	111 77 1	aiiu π⊿.

		1			
Identi	fy t	he following var	riables as either qu	antitative or quali	tative in #1 and #2.
	1)	Brand of basketbal	l shoes worn by a team.		
		A) Quantitative		B) Qualitative	
	2)	Outcome of tossing	g a coin.		
		A) Quantitative		B) Qualitative	
Identi	fy t	he number as ei	ther continuous or	discrete in #3 and	ł #4.
	3)	The average speed Friday is 32.3 mi/h		intersection between 4	4:30 P.M. and 6:30 P.M. on a
		A) Continuous		B) Discrete	
	4)	The total number of	f scam emails you recei	ive in a month is 7.	
		A) Continuous		B) Discrete	
Deter	min	e which of the fo	our levels of measu	rement is most ap	propriate in #5.
	5)	Political party pref	erence of survey respon	idents.	
		A) Nominal	B) Ordinal	C) Interval	D) Ratio
Two	stat	ements are give	en in #6. Select t	the statement for	which a ratio of the
		_	gful. State "Neither		
	6)	1 The fertilized the same week	-	in a week; the unfertil	ized grass grew 1.8 inches in
		2 The single-sta	ge model rocket went u	p 287 ft; the two-stage	model rocket went up 412 ft.
		A) The single-sta	ge model rocket went u	p 287 ft; the two-stage	model rocket went up 412 ft.
		B) The fertilized the same week		n a week; the unfertilize	ed grass grew 1.8 inches in
		C) Neither			
		D) Both			
Select	the	description tha	t most completely	classifies the given	n variable in #7.
	7)	Number of wins by	the NFL teams in the l	NFC Central division	
		A) Quantitative, no	ominal	B) Quantitative, ir	nterval
		C) Qualitative, into	erval	D) Quantitative, ra	atio
	8)		s how big 1/3 is, relative		narked in quarters. Assuming ify the potential measurement
		A) Systematic		B) Random	
	9)	A person is always	late for class. Identify	the potential error as ra	andom or systematic.
		A) Systematic		B) Random	

10)		two scoops of coffee coops of coffee per pot		e manufacturer, a coffee rror?
	A) -50%	B) $-33\frac{1}{3}\%$	C) 50%	D) $33\frac{1}{3}\%$
11)	A pharmacist puts 32 perror?	pills into a prescription	order that calls for 30	pills. What is the absolute
	A) -6.7%	B) -2 pills	C) 2 pills	D) 6.7%
12)	The approximate value values is the most accurate.		hich of the following of	experimentally determined
	A) 3.14	B) 3.3245	C) 3.412114	D) 3.247
13)	Which of the following	g statements is correct?		
	A) "Precise measure	ment" means the same	thing as "accurate mea	surement".
	B) An accurate meas	surement must be precis	se.	
	C) A precise measur	ement must be accurate	<b>.</b> .	
	D) A precise measur	ement is not necessarily	y accurate.	
14)		a drinking binge (more		s. Of these students, 789 evening) in the past month.
	A) About 66.358% o	of college students indul	lged in binge drinking	last month.
	B) Of the 23,456,32 last month.	1 college students in the	e country, 15,565,212 i	ndulged in binge drinking
	C) About 65% of co	llege students indulge in	n binge drinking.	
	D) About 65% of co	llege students indulged	in binge drinking last i	month.
15)	Convert 1779% to dec	imal form.		
	A) 177.9	B) 17.79	C) 1.779	D) 177,900
16)	Convert 0.0195% to de	ecimal form.		
	A) 0.000195	B) 1.95	C) 0.195	D) 19.5
17)		ng account balance a percentage change to the	•	Currently, it is \$1040. bint.
	A) -41%	B) 29%	C) 41%	D) -29%
18)		-	•	5% of persons 60-65 years older group, to the nearest
	A) -48%	B) 76%	C) 310%	D) 48%
19)		number, rounded to		\$90 in 2010. What is the the 2010 edition with the
	A) 150	B) 66.7	C) 100.0	D) 50
	,	,	-,	,

20) A part of the CPI table is given below:

Year	1975	1980	1985	1990	1995
CPI	53.8	82.4	107.6	130.7	152.4

What is the percent increase of a market basket of goods from 1975 to 1985? Round the percent to the nearest integer.

- A) 100%
- B) 200%
- C) 54%
- D) 50%

#### Chapter 2 (Measurement in Statistics) Exam, form D

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

Identify the following variables as either quantitative or qualitative in #1 and #2	<b>Identify</b>	y the	following	variables	as either	quantitative o	r qualitative	in #1	and #	2.
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- 1) A player's number on her soccer jersey
  - A) Quantitative
- B) Qualitative
- 2) The number of textbooks owned by a student
  - A) Quantitative
- B) Qualitative

#### Identify the number as either continuous or discrete in #3 and #4.

- 3) The number of DIRECT TV customers
  - A) Continuous
- B) Discrete
- 4) The voltage of the electricity in a power line
  - A) Continuous
- B) Discrete

#### Determine which of the four levels of measurement is most appropriate in #5.

- 5) A librarian rates fives books on an "ease of reading" scale from 1 (easy) to 10 (hard).
  - A) Nominal
- B) Ordinal
- C) Interval
- D) Ratio

### Two statements are given in #6. Select the statement for which a ratio of the measurements is meaningful. State "Neither" or "Both" if appropriate.

- 6) 1 Jan earned a B on her test and Bob earned a C.
  - 2 Bob wears size 9 shoes and Earl wears size 13.
  - A) Jan earned a B on her test and Bob earned a C.
  - B) Bob wears size 9 shoes and Earl wears size 13.
  - C) Neither
  - D) Both

#### Select the description that most completely classifies the given variable in #7.

- 7) A Prostate Specific Antigen (PSA) test is useful in detecting prostate cancer in men. A sample of blood is analyzed and the concentration of PSA is reported in nanograms per milliliter. Values less than 4.0 are considered normal and values over 10.0 indicate that further tests are needed. The best classification of the PSA variable is
  - A) Nominal

- B) Qualitative, Ordinal
- C) Quantitative, Continuous
- D) Quantitative, Discrete
- 8) Amtrak passenger trains are often late in arriving at their destinations. Identify the potential error in arrival time as systematic or random.
  - A) Systematic

B) Random

9)	of grapes by standing of	on a bathroom scale w		ker estimates the 4 pounds pes. The scale only shows ystematic or random.			
	A) Systematic		B) Random				
10)	0 1 0 0		• •	unds, 12 ounces of grapes ative error? (There are 16			
	A) 4 ounces	B) –4 ounces C) 6	.25% D) -6.25%	6			
11)	A golfer estimates that distance is exactly 212			is 200 yards. The actual			
	A) -12 yards	B) -6.0%	C) 6.0%	D) -5.7%			
12)	measured in grams eq physics experiments. number was the sam determined experimen	It is named after Ame e for all substances. tally. Some of them that you have to move nost accurate?	ght. It can only be deadeo Avogadro, who p Various values for are 6.02 x 10 <sup>23</sup> , 6.022	a quantity of the substance etermined by chemistry or ostulated in 1811 that this this constant have been x 10 <sup>23</sup> , and 6.02214199 x places to the right. Which			
13)	Compared to a scale t	hat measures your we	eight to tenths of a poi	and, a scale that measures			
10)	your weight to the near	-	and to tenuns of a po-	and, a source man measures			
	A) more precise and i	more accurate.					
	B) less precise, but n	nay be more accurate.					
	C) more precise, but	may be less accurate.					
	D) less precise and le	ss accurate.					
14)				om a day's production of Select the most believable			
	A) About 2.047% of	the day's production w	as defective.				
	B) Of the 27,114 tires produced that day, 555 were defective.						
	C) A little over 2% o	f all tires produced by	the plant that day were	defective.			
	D) A little over 3% of	f all tires produced by	the plant that week wer	e defective.			
15)	Convert 112.463% to 0	decimal form.					
	A) 1.12463	B) 11.2463	C) 1124.63	D) 11246.3			
16)	Convert 0.1963 to a pe	rcent.					
	A) 0.001963%	B) 0.01963%	C) 1.963%	D) 19.63%			
17)	After a year of weigh What is his percent inc	_		22 pounds to 185 pounds.			
	A) 13.0 pounds	B) 8.0%	C) 7.6%	D) 7.0%			

WI w	is \$3.89 while in nce in price in A	Appleton, WI, the a	verage price was \$3.74	nleaded gas in Eau Claire, 4. What is the percentage relative to the price in Eau
A) $-3$	9%	B) 3.9%	C) -4.0%	D) 4.0%

- 19) Suppose that the cost of a statistics text was \$45 in 1980 and \$76 in 2005. What is the Statistics Text Index number, rounded to the nearest tenth, for the 1980 edition with the 2005 price as the reference value?
  - A) 0.6 B) 5.9 C

C) 59.2 D) 168.9

20) A part of the CPI table is given below:

	Year	1975	1980	1985	1990	1995	2000	2005
•	СРІ	53.8	82.4	107.6	130.7	152.4	172.2	195.3

Suppose that a statistician's salary was \$64000 in 1985. What would the salary have to be in 2005 to keep up with inflation (rounded to the nearest \$1000)?

- A) \$125,000
- B) \$69,000
- C) \$116,000
- D) \$35,000