Chapter 2: Solving Problems with Statistical Analysis Tools

TRUE/FALSE

1. Microsoft Excel provides a variety of predefined functions, including statistical functions, that you can use to determine such values as the arithmetic mean, median, mode, and standard deviation of a set of data.

ANS: T PTS: 1 REF: 79

2. The median is the arithmetic average of a set of numbers.

ANS: F PTS: 1 REF: 80

3. The standard deviation tells you how closely together values are distributed.

ANS: T PTS: 1 REF: 82

4. The ROUND argument *num_digits* is a single value that can be a constant, a cell reference where the cell contains a numerical value, or another formula that results in a single number value.

ANS: F PTS: 1 REF: 85

5. The formula =ROUNDUP(3.432,1) rounds the value 3.432 up to the next highest tenth, or 3.5.

ANS: T PTS: 1 REF: 86

6. The Format Painter can be used to copy a format into multiple noncontiguous cells.

ANS: T PTS: 1 REF: 88

7. Selecting the Set precision as displayed workbook option permanently changes the values in all workbook cells from full precision, which is six digits, to whatever format is displayed in that cell.

ANS: F PTS: 1 REF: 88

8. If you select the Paste option button called Values, you will paste only the values; the formulas and any formatting from the original cell(s) are not pasted.

ANS: T PTS: 1 REF: 90

9. The Paste Special dialog box offers Operation options, which allow you to paste values using only three arithmetic operations: Add, Subtract, and Multiply.

ANS: F PTS: 1 REF: 92

10. The statistical function MODE returns the most frequently occurring value in a range of data.

ANS: T PTS: 1 REF: 93

11. The technique used to fix certain rows while you scroll to other rows in a worksheet is called freezing panes.

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	ANS: T	PTS:	1	REF:	95
12.	A way to analyze the in one data set compa	differen ared wit	nces between tw h that value in	wo sets the seco	of data is to look at the percent difference of a value ond data set.
	ANS: T	PTS:	1	REF:	99
13.	The syntax of the RA	NK.EQ	function is as	follows	: RANK(number,sort,order).
	ANS: F	PTS:	1	REF:	105 106
14.	With the LARGE fur	nction, t	he argument ca	lled and	alysis describes the range of cells being evaluated.
	ANS: F	PTS:	1	REF:	107
15.	The SMALL function	n detern	nines the <i>n</i> th sn	nallest	value in a range.
	ANS: T	PTS:	1	REF:	109
16.	The COUNTONLY	function	counts the nur	nber of	items in a range that meet specified criteria.
	ANS: F	PTS:	1	REF:	111
17.	The values TRUE an	d FALS	E are referred	to as Bo	polean values.
	ANS: T	PTS:	1	REF:	112
18.	Relational operators	are used	l to compare da	ıta.	
	ANS: T	PTS:	1	REF:	113
19.	Result Seek uses an i goal, in the dependent	terative at cell.	approach to fir	nding th	ne right input that achieves the desired result, or
	ANS: F	PTS:	1	REF:	134
20.	Simulation is an anal	ytical m	ethod that crea	ites arti	ficially generated data to imitate real data.
	ANS: T	PTS:	1	REF:	139
MOD	IFIED TRUE/FALS	E			

1. The <u>median</u> is the arithmetic value that occurs in the middle of a data set when organized from lowest to highest, where half the values are less than and half the values are greater than the median value.

ANS: T PTS: 1 REF: 80

2. The Paste option called <u>Paste Special</u> pastes a connection to the original cells, including the applied formatting.

ANS: F

Paste Link Paste link paste link

PTS: 1 REF: 91

3. In the function RANK.EQ(number, ref, order), the *number* argument refers to the value to be ranked.

ANS: T PTS: 1 REF: 105 4. The <u>BIG</u> function determines the *n*th largest value in a range. ANS: F, LARGE PTS: 1 REF: 107 5. To obtain the value for the lowest or highest Friction Coefficient values, the MIN and MAX functions would suffice. ANS: T PTS: 1 REF: 107 6. The critical argument is essentially a test that the data must meet in order for it to be counted in the grouping. _____ ANS: F, criteria argument PTS: 1 REF: 111 7. To determine if a value is greater than or equal to another value, you can use <u>syntax</u> operators. ANS: F, relational PTS: 1 REF: 113 8. Wingdings are symbols that you can use as part of the criteria to search for text strings; each symbol can be substituted for a character or set of characters. ANS: F, Wildcards PTS: 1 REF: 113 9. The COUNTIF function accommodates a(n) single contiguous range argument. PTS: 1 ANS: T REF: 116 10. In the SUMIF function, the *criteria* argument identifies the cell range where the criteria are located. ANS: F, range

PTS: 1 REF: 118

11. The <u>ADDIF</u> function adds all the values in a range that meet specified criteria.

ANS: F, SUMIF

PTS: 1 REF: 118

12. The <u>Format Cells</u> dialog box, which can be opened from the Number group Dialog Box Launcher on the HOME tab, provides many options for changing the display of cell values.

ANS: T PTS: 1 REF: 125

13. Excel uses the <u>Goal Find</u> tool to try various input values in order to calculate the required input to achieve your desired outcome.

ANS: F, Goal Seek

PTS: 1 REF: 131

14. The <u>RANDOM</u> function randomly assigns a number between two specified values.

ANS: F, RANDBETWEEN

PTS: 1 REF: 140

15. You can recalculate a worksheet at any time by pressing the F9 function key or by selecting the <u>Refresh</u> button found in the Calculation group on the FORMULAS tab on the ribbon.

ANS: F, Calculate Now

PTS: 1 REF: 142

MULTIPLE CHOICE

Microsoft Excel allows you to use _____, such as LARGE, SMALL, and RANK.EQ, that help you to structure and analyze data in meaningful ways.

a.	Tunctions			С.	rules
b.	charts			d.	arguments
AN	IS: A	PTS:	1	REF:	79

2. The _____ is the arithmetic average of a set of numbers.

a. mean		c. mode
b. median		d. standard deviation
ANS: A	PTS: 1	REF: 80

The _____ is the arithmetic value that occurs in the middle of a data set when organized from lowest to highest, where half the values are less than and half the values are greater than the median value.
 a. mean
 c. mode

	b. median			d.	standard deviation
	ANS: B	PTS:	1	REF:	80
4.	The is the arith a. mean b. median	metic v	alue that occurs	s most f c. d.	requently in a data set. mode standard deviation
	ANS: C	PTS:	1	REF:	80
5.	The is a measur a. mean b. median	re of ho	w widely the d	ata valu c. d.	tes are dispersed from the arithmetic mean. mode standard deviation
	ANS: D	PTS:	1	REF:	80
6.	Consider the followin a. 1 b. 3.94	ng five	values: 1, 1, 6,	7, and 1 c. d.	 10. The arithmetic mean of these values is 5 6
	ANS: C	PIS:	1	REF:	80
7.	A(n) distributionthe arithmetic mean.a. normalb. skewed	n exhib	its an equal nu	mber of c. d.	f occurrences of data values both below and above simulated angular
	ANS: A	PTS:	1	REF:	80
8.	The of a norma a. mean, median, an b. mean and median c. mean, median, m d. median and mode	l distrib nd mode n lode, an e	oution are the sa e d standard dev	ame val iation	ue.
	ANS: A	PTS:	1	REF:	80
9.	The function al from half the range a a. AVERAGE b. NORMAL	gorithm nd abov	rounds down /e.	all valu c. d.	es of less than half the range, and rounds up values DOWN ROUND
	ANS: D	PTS:	1	REF:	86
10.	The ROUND argume a. decimal places b. digits	ent <i>num</i>	_ <i>digits</i> is the sp	pecified c. d.	number of integers operators
	ANS: A	PTS:	1	REF:	85
11.	If you wrote the form a. 26% b. 25%	nula =R	OUNDDOWN	c. d.	%,2), the resulting value would be 25.8% 25.83%
	ANS: B	PTS:	1	REF:	87

12. If you wrote the formula =ODD(1.23), the resulting value would be _____.

	a. 1 b. 2			c. d.	3 4
	ANS: C	PTS:	1	REF:	87
13.	If you wrote the form a4 b4.3	ula =T	RUNC(-4.382	,1), the 1 c. d.	resulting value would be -4.38 -4.382
	ANS: B	PTS:	1	REF:	87
14.	Use to copy a f a. the Format Paint b. the Format Copie	ormat fi er er PTS:	rom one cell to	o anothe c. d. PEE.	r cell or group of contiguous cells. Paint Special Format
15.	Selecting the Set pre- workbook cells from the number of decim a. 5 b. 9	r ision a full pre al place	s displayed we ecision (o s.	ntbook digits) to c. d.	option permanently changes the values in all whatever format is displayed in that cell, including 15 21
	ANS: C	PTS:	1	REF:	88
16.	The simplest method use the Copy button a. FORMAT b. HOME	to copy and the	information i Paste button i	is to first n the Cli c. d.	t select the information you want to copy, and then ipboard group on the tab. INSERT DATA
	ANS: B	PTS:	1	REF:	90
17.	The Paste option call a. Picture b. As Picture ANS: A	ed PTS:	pastes the co	ntents of c. d. REF:	f the copied cells(s) as a picture. Paste Picture Paste Graphic 91
18.	The Paste option call reverses the orientati range, and the origin a. Transpose b. Switch ANS: A	ed on so th al colun PTS:	pastes the for the rows of nns become ro	rmulas a the orig ows. c. d. REF:	nd formatting from the original range of cells, but inal cell range become the columns in the pasted Wildcard Turn 90
19.	The Paste option but cell(s), but not the fo a. Keep Source For b. No Borders ANS: B	ton opti rmat of matting PTS:	on called the cell borde	_ pastes rs. c. d. REF:	the formulas and formatting from the original Document Theme Destination Formatting 90
20.	The Paste option but maintains the column	ton calle n width	ed pastes of the original	s the data l cell(s).	a and formulas from the original cell(s), and

a. Column Stay c. Keep Source Column Widths

	b. V	Vidth Only			d.	Keep Column Size
	ANS:	C	PTS:	1	REF:	90
21.	The F that c the ra a. C b. B	Paste Special dia ontains one or 1 nge into which Copy Blanks Iank Over	alog box more bla they are	c offers the ank cells where e pasted.	option the bla c. d.	n, which enables you to copy and paste a cell range nk cells are not pasted over any existing values in Comments Skip Blanks
	ANS:	D	PTS:	1	REF:	92
22.	The M type of a. so b. a	MODE.SNGL, I of argument, wh ort order list of values	MEDIA nich is _	N, and STDEV ·	/.S func c. d.	tions work in a similar way, containing only one a range of values for comparison ranking parameters
	ANS:	В	PTS:	1	REF:	93
23.	A list a. co b. a	of values can constants and cell range of cells a	contain _ ll refere llong a c	nces column or row	c. d.	a two-dimensional block of cells all of the above
	ANS:	D	PTS:	1	REF:	93
24.	With argun a. n b. p	a functior nents. ested arent	n, you in	clude that fund	ction ins c. d.	side another formula or function as one of its child linked
	ANS:	A	PTS:	1	REF:	94
25.	The to panes a. fr b. st	echnique used t reezing ticking	o fix cei	rtain rows whil	le you so c. d.	croll to other rows in a worksheet is called keeping locking
	ANS:	A	PTS:	1	REF:	95
26.	A tec dragg a. sj b. d	hnique you can ing either the h plit elete	use to s orizonta	ee different pa ll split box or t	rts of th he vertion c. d.	the screen at the same time is to the window by cal split box to create separate, scrollable panes. crack separate
	ANS:	Α	PTS:	1	REF:	96 97
27.	To ca divide a. a	lculate a(n) e the difference verage difference	between by the of th	een two data se old value.	ets, you c.	subtract the old value from the new value and then percent difference
	b. st	andard deviatio	on differ	rence	d.	none of the above
	ANS:	C	PTS:	1	REF:	99
28.	The _ the va	function al alue in question	lows yo	u to sort a list	and the	n count the number of entries either above or below

a. RANK.EQ c. FIND

	b. POSITION		d.	COUNT
	ANS: A	PTS: 1	REF:	105
29.	In the LARGE function a. the largest value b. the smallest value	on, the second argume	nt, <i>k</i> , is c. d.	the desired ranking, where 1 is required not allowed
	ANS: A	PTS: 1	REF:	107
30.	In the SMALL functi a. a formula b. the desired rankin	on, the first argument,	array, c. d.	is a range of cells a time period
	ANS: C	PTS: 1	REF:	109
31.	The syntax of the CO a. =COUNTIF(rang b. =COUNTIF(ref,r	UNTIF function is ge,array) ange)	 c. d.	=COUNTIF(array,k) =COUNTIF(range,criteria)
	ANS: D	PTS: 1	REF:	111
32.	The values TRUE and a. operational imper b. Boolean values	d FALSE are referred ratives	to as c. d.	 base values syntax neutral
	ANS: B	PTS: 1	REF:	112
33.	The symbols > and >: a. relational operato b. relational values	= are examples of ors	 c. d.	arrays reference operators
	ANS: A	PTS: 1	REF:	113
34.	are symbols tha can be substituted for a. Wingdings b. Wildwheels	t you can use as part o another character or s	f the cri tet of ch c. d.	iteria to search for text strings in which the symbol haracters. Open Text symbols Wildcards
	ANS: D	PTS: 1	REF:	113
35.	The wildcard sp a. asterisk (*) b. question mark (?)	becifies that any numbe	er of ch c. d.	aracters can be substituted. forward slash (/) backward slash (\)
	ANS: A	PTS: 1	REF:	113
36.	The wildcard sp a. asterisk (*) b. question mark (?)	becifies that a single ch	naracter c. d.	can be substituted. forward slash (/) backward slash (\)
	ANS: B	PTS: 1	REF:	113 114
37.	Wildcards work with a. numbers b. dates		c. d.	text all of the above

	ANS: C	PTS: 1	REF:	114
38.	With the COUNTIF : follows is	function, the	first time it encou	unters the comma delimiter, it assumes that what
	a. a dateb. a number		c. d.	additional ranges the criteria
	ANS: D	PTS: 1	REF:	116
39.	The Format Cells dia HOME tab, provides a. Cells b. Data	log box, whi many optior	ich can be opened ns for changing th c. d.	from the group Dialog Box Launcher on the e display of cell values. Number Data
	ANS: C	PTS: 1	REF:	125
40.	A format code can in	clude up to f	four parts, each se	parated by a semicolon, and does NOT include
	a. negative number b. positive number	format format	c. d.	zero value format placeholder format
	ANS: D	PTS: 1	REF:	127
41.	The symbol act	s as a digit p	laceholder that di	splays significant digits.
	a. # b. 0		c. d.	? %
	ANS: A	PTS: 1	REF:	128
42.	The symbol act	s as a digit p	laceholder that di	splays both significant and insignificant zeros.
	a. # b. 0		c. d.	? %
	ANS: B	PTS: 1	REF:	128
43.	The symbol act place so that decimal	s as a digit p points will a	blaceholder that do	bes not display insignificant digits, but does hold a
	a. #	r	с.	?
	D. U	DTC. 1	d.	% 128
	ANS: C	P15: 1	KEF:	128
44.	The symbol ins display.	erts a percen	ntage sign and auto	omatically multiplies the value inserted by 100 for
	a. # b. 0		c. d.	? %
	ANS: D	PTS: 1	REF:	128
45.	The symbol(s)	insert(s) a co	omma as a thousar	nds separator or as a scaling operator.
	a. , b. *		c. d.	@
	ANS: A	PTS: 1	REF:	128

46.	The symbol(s) its complete width.	indicate	e(s) repetition of	of the fo	llowing character enough times to fill the column to
	a. , b. *			с. d.	 @
	ANS: B	PTS:	1	REF:	128
47.	The symbol(s)	specify	specifies that t	ext encl	losed in between these marks should be inserted as
	snown. a			c.	
	b. *			d.	@
	ANS: C	PTS:	1	REF:	128
48.	The symbol(s) custom format.	indicate	(s) the location	n where	text should be inserted in cells formatted with a
	a. ,			с.	
	b. *			d.	@
	ANS: D	PTS:	1	REF:	128
49.	The symbol in sure positive number a (underscore) b (dash)	dicates t rs align	o skip the widt with negative 1	h of the numbers c. d.	next character. It's frequently used with () to make displayed with (). @ +
	ANS: A	PTS:	1	REF:	128
50.	Performing a a values and to evalua a. maybe	nalysis te the re	means, simply, calculated resu	to deten ilts. c.	rmine the outcome of changing one or more input
	b. what-if			d.	research
	ANS: B	PTS:	1	REF:	131
51.	When using Goal Se vary, and Excel a. gives you a set o b. automatically ca c. prompts you wit d. none of the above	eek, you of code t .lculates .h a dialo /e	can specify the o use in a datal the solution og box	e outcon base pro	ne you want and which input value you want to ogram
	ANS: B	PTS:	1	REF:	131
52.	In the Goal Seek dia labeled	log box	the cell contai	ining the	e data to vary in order to reach the desired output is
	b. What to change	1		с. d.	Vary
	ANS: A	PTS:	1	REF:	132
53.	In the Goal Seek dia a. in which the out b. that contains the	log box put valu formula	you use the Se e will appear a to use	et cell b c. d.	ox to specify the cell with the output label none of the above
	ANS: A	PTS:	1	REF:	132

54.	The Step button in C a. allows you to ste b. returns the data c. walks you throu d. none of the above	Goal See ep throu in separ gh the st ve	k gh each iteratio ate spreadsheet teps similar to a	on one s s a wizarc	tep at a time
	ANS: A	PTS:	1	REF:	134
55.	Once the Goal Seek worksheet with the r a. OK	Status d new valu	lialog box gives les based on Go	s the tar bal Seek c.	get value, you can click to update your x. New Concel
	ANS: A	PTS:	1	u. REF:	132
56.	In Goal Seek, if the a. Goal Seek dialo b. value of zero is c. closest value for d. none of the above	target va g box as listed as and is lis ve	alue cannot be r ks for your inp the current val sted as the curre	reached ut ue ent valu	exactly, the
	ANS: C	PTS:	1	REF:	132
57.	Goal Seek uses dependent cell. a. a database b. an iterative	_ approa	ch to finding th	ne right c. d.	input that achieves the desired result, or goal, in the a scientific a random
	ANS: B	PTS:	1	REF:	134
58.	Goal Seek continues a. 0.001 of the goa b. 100 iterations	s to enter l	r values until it	reaches c. d.	either a or b neither a nor b
	ANS: C	PTS:	1	REF:	134
59.	The function p a. COUNTIF b. SUMIF	rovided	by Excel avera	iges a se c. d.	eries of values if they meet specific criteria. AVERAGE none of the above
	ANS: D	PTS:	1	REF:	136
60.	Goal Seek allows yo a. a single b. up to 3	ou to var	y input(s)). c. d.	up to 5 up to 10
	ANS: A	PTS:	1	REF:	134
61.	The input for Goal S a. a constant value b. derived from a f	Seek can Formula	be	c. d.	either a or b neither a nor b
	ANS: A	PTS:	1	REF:	135

62. The syntax of the AVERAGEIF function _____ is very similar to the syntax of the SUMIF function.

	a. (b. (range,criteria,av criteria,average,	erage_r range)	ange)	с. d.	(ref,range,criteria) (array,average_range,ref)
	ANS	: A	PTS:	1	REF:	136
63.	a. 2 b. 1	is an analytical Simulation Play acting	method	that creates ar	tificially c. d.	y generated data to imitate real data. Role playing Regression
	ANS	: A	PTS:	1	REF:	139
64.	A sin appe a. l b. l	nulation that is b aring, such as nu Las Vegas Blackjack	based or or or o	n randomly gen on a set of dice	erating , is ofter c. d.	specific values that have an equal chance of n referred to as a simulation. Lucky 7 Monte Carlo
	ANS	: D	PTS:	1	REF:	139
65.	The a. 1 b. 1	function ra RANGERANDC RANDBETWEE	ndomly M N	assigns a num	ber betv c. d.	veen two specified values. INBETWEEN RANDOM
	ANS	5: B	PTS:	1	REF:	140
66.	The a. 1 b. 1	function re RANDUNDER RAND	turns a i	random value t	etween c. d.	0 and 1. RANDZERO RANDONE
	ANS	: B	PTS:	1	REF:	140
67.	The a. i b.	formula =RAND nteger with three 1, 2, or 3	BETW e numbe	EEN(1,3) rand ers	omly rec c. d.	turns a(n) number with three decimal places none of the above
	ANS	: B	PTS:	1	REF:	140
68.	Auto FILE	ematic calculation E tab.	n can be	e turned off from	m the ri	bbon or from the dialog box accessed via the
	a. 1 b. `	Worksheet Options	ns		с. d.	Ribbon Options
	ANS	: A	PTS:	1	REF:	142
69.	Whe in a a. a b. j	n working with t cell anywhere on automatically cha prompt you with	he RAN the wo ange a dialog	ND and RAND rksheet, the rar g box	BETWE ndom va c. d.	EEN functions, every time you enter another value dues prompt you with an error message stay the same
	ANS	: A	PTS:	1	REF:	141
70.	You a. l b. l	can recalculate a F5 F7	ı works	heet at any time	e by pre c. d.	ssing the function key. F8 F9
	ANS	: D	PTS:	1	REF:	142

Case-Based Critical Thinking Questions

Case 2-1

Relational Operator	
>	
<	
>-	
<-	
-	
~	

Julia is learning how to use relational operators with the COUNTIF function. Her boss handed her the chart in the above figure and asked her to solve some everyday business problems.

71. Julia wants to take a count of all employees who are participating in more than one committee. The data is listed in column F of a worksheet. The correct formula would be _____.

a. =COUNTIF(F3:F13,"<1")		c.	=COUN'	ΠΙF(F3:F13,">=1")	
b. =COUNTIF(F3:F13,">1")		d.	=COUN'	ΠΙF(F3:F13,"=1")	
ANS: B	PTS: 1	REF:	112	TOP: Critical Think	ing

72. Julia wants to take a count of all employees who are participating in exactly one committee. The correct formula would be _____.

a. =COUNTIE	F(F3:F13,"<1")	c. =COUN	TIF(F3:F13,">=1")
b. =COUNTIE	F(F3:F13,">1")	d. =COUN	TIF(F3:F13,"=1")
ANS: D	PTS: 1	REF: 112	TOP: Critical Thinking

73. After showing her boss the data, he asked her to run one more COUNTIF to determine who is on one or more committees. The correct formula would be _____.

a. =COUNTIE	F(F3:F13,"<1")	с.	=COUN'	ΓΙF(F3:F13,">=1")
b. =COUNTIE	F(F3:F13,">1")	d.	=COUN	ΓΙF(F3:F13,"=1")
ANS: C	PTS: 1	REF:	112	TOP: Critical Thinking

- 74. On a separate project, the head of Human Resources is looking for a list of people who do *not* have 100% attendance. In the database, the number 1 means 100% attendance; all other numbers indicate that some work was missed (for example, .75 is 75% attendance). The data is listed in column E of a worksheet. The correct COUNTIF formula would be _____.
 a. =COUNTIF(E3:E13,"<1")
 b. =COUNTIF(E3:E13,"=1")
 c. =COUNTIF(E3:E13,"<1")
 d. =COUNTIF(E3:E13,"<1")
 ANS: A PTS: 1 REF: 112 TOP: Critical Thinking
- 75. If the Human Resources director wanted a list of people who *do* have 100% attendance, the correct formula would be _____.

a. =COUNTIE	F(E3:E13,"<>1")	с.	=COUN'	TIF(E3:E13,">=1")	
b. =COUNTIE	F(E3:E13,"=1")	d.	=COUN'	TIF(E3:E13,"<1")	
ANS: B	PTS: 1	REF:	112	TOP: Critical Thinki	ng

Case-Based Critical Thinking Questions Case 2-2

Goal Seek	? ×	_ 1
S <u>e</u> t cell:	\$E\$105	
To <u>v</u> alue:	225	2.
By changing cell:	\$E\$2	
ОК	Cancel	3.

Nevia is using Goal Seek for the first time. She is determining what to put in each text box inside the Goal Seek dialog box shown in the above figure.

76.	 a. If you were to help Nevia, you would tell her that the space labeled #1 in the above figure a. indicates the cell containing the output value b. indicates the desired output value c. indicates the cell containing the data to vary in order to reach the desired output d. none of the above 						
	ANS: A	PTS:	1	REF:	132	TOP:	Critical Thinking
77.	Nevia has told you th a. #1 b. #2	nat the d	lesired value is	325. In c. d.	which text box #3 none of the at	x should	d she insert the desired value?
	ANS: B	PTS:	1	REF:	132	TOP:	Critical Thinking
78.	Nevia's boss stops by to be the dependent of a. #1 b. #2	y her de lata, and	sk and asks wh d she correctly	nich of t answers c. d.	he three numbes $\frac{3}{\#3}$. none of the ab	ers in th	e above figure is considered
	ANS: C	PTS:	1	REF:	132	TOP:	Critical Thinking
79.	At the end of the pro- few of her co-worker a. FORMULAS b. PAGE LAYOUT	ject, Ne rs. To oj f	via is very plea pen Goal Seek,	nsed wit her firs c. d.	h the results an t step is to click REVIEW DATA	id is giv k the	ving a demo of Goal Seek to a tab on the ribbon.
	ANS: D	PTS:	1	REF:	132	TOP:	Critical Thinking
80.	Once Nevia clicks th group, then selects G a. What-If Analysis b. Simulation	e correc loal See	et tab, to open C k.	Goal See c. d.	ek, she clicks tl Goal Minder Data Dialog	he	button in the Data Tools
	ANS: A	PTS:	1	REF:	132	TOP:	Critical Thinking

COMPLETION

1.	is a measure of how widely the data values are dispersed from the arithmeti	ic
	mean.	
	ANS: Standard deviation	
	PTS: 1 REF: 80	
2.	Γo specify that a value should be precisely stored to the nearest hundredth, use the function.	
	ANS: ROUND Round round	
	PTS: 1 REF: 84 85	
3.	The formula = $(3.432,1)$ rounds the value 3.432 up to the next highest tenth, 3.5.	or
	ANS: ROUNDUP Roundup roundup	
	PTS: 1 REF: 86	
4.	The Paste option button pastes the formulas and formatting from the originates cell(s), but not the format of the cell borders.	al
	ANS: No Borders	
	PTS: 1 REF: 90	
5.	The Paste option button pastes only the formulas from the original (copied) cell(s).)
	ANS: Formulas	
	PTS: 1 REF: 90	
6.	The Paste option button pastes values from the original cell(s) and formatting.	
	ANS: Values & Source Formatting Values and Source Formatting values & source formatting values and source formatting	
	PTS: 1 REF: 90	
7.	The Paste option button pastes a connection to the original cell, including the applied formatting.	he

ANS: Paste Link paste link

PTS: 1 REF: 91

8. The MODE.SNGL, MEDIAN, and STDEV.S functions work in a similar way, containing only one type of ______, which is a list of values.

ANS: argument

PTS: 1 REF: 93

9. When you _______ a function, you include that function inside another formula or function as one of its arguments.

ANS: nest

PTS: 1 REF: 94

10. Excel provides several tools for displaying and scrolling columns and/or rows so that certain areas can be fixed, or ______, and the remainder of the worksheet can be scrolled easily.

ANS: frozen

PTS: 1 REF: 95

11. To split an Excel window vertically, click the ______ after clicking to the right and below the location where you want to divide the window.

ANS: split button

PTS: 1 REF: 96

12. To split the screen both vertically and horizontally so there are five rows at the top and three columns on the left, place the cursor in the ______ column displayed on the screen in the sixth row of the worksheet.

ANS: fourth 4th

PTS: 1 REF: 96

13. To calculate a(n) ______ between two data sets, you subtract the old value from the new value and then divide the difference by the old value.

ANS: percent difference

PTS: 1 REF: 99

14. In the function RANK.EQ(number,ref,[order]), the ______ argument is the range of values the number is being compared with.

		ANS: REF Ref ref			
		PTS:	1	REF:	105
1	15.	The criteria	a.		_ function counts the number of items in a range that meet specified
		ANS:	COUNTIF		
		PTS:	1	REF:	111
1	16.	Wildc	ards do not wo	rk with	values that are numbers or dates, only
		ANS:	text		
		PTS:	1	REF:	114
1	17.	The re	lational operate	$r \ge st$	ands for than or equal to.
		ANS:	greater		
		PTS:	1	REF:	113
]	18.	When	the # symbol a	cts as a coc	placeholder for a digit, it is considered to be a(n) de.
		ANS:	number forma	tting	
		PTS:	1	REF:	128
]	19.	Up to numbe	four different f ers, one for zero	ormat c	rodes can be applied to a cell: one for positive numbers, one for negative s, and one for
		ANS:	text		
		PTS:	1	REF:	127
2	20.	Perfor changi	ming a(n) ing one or more	e input v	analysis means, simply, to determine the outcome of values and to evaluate the recalculated results.
		ANS: what-i what i	f f		
		PTS:	1	REF:	131

MATCHING

Wildcard	Formula	
*	-COUNTIF(H2:H13,**3*)	1.
*	-COUNTIF(H2:H13, **1**)	2.
ę	-COUNTIF(H3:H13,"\$313")	3.
ŝ	-COUNTIF(H3:H13,″*3₽₽″)	4.

Using the above figure, identify the letter of the choice that best matches the figure.

- a. Counts all Inspector IDs that contain the text value "1" anywhere in the value (A313, C321, B313, and so on)
- b. Counts all Inspector IDs that end with the text value "3"
- c. Counts all Inspector IDs that have the value "3" in the third-to-last position in the text value, regardless of the number of preceding characters
- d. Counts all Inspector IDs with a single character followed by the characters "313"; notice that cell H7 is not counted because it contains two characters preceding the characters "313"
- 1. #1
- 2. #2
- 3. #3
- 4. #4

1.	ANS:	В	PTS:	1	REF:	114
2.	ANS:	А	PTS:	1	REF:	114
3.	ANS:	D	PTS:	1	REF:	114
4.	ANS:	С	PTS:	1	REF:	114

Identify the letter of the choice that best matches the function.

- a. =ROUND(25.449,0)
- b. =ROUND(SUM(10.33,10.44),0)
- c. =ROUND(25.33%,2)
- d. =INT(-4.3)
- e. =ROUND(103234,-2)
- f. =ROUND(23.75%,2)
- g. =ROUNDDOWN(9.99,0)
- h. =EVEN(2.23)
- 5. 24%
- 6. 21
- 7. 25%
- 8. -5
- 9. 25
- 10. 9
- 11. 4

12.	103.200
1 2.	105,200

5.	ANS:	F	PTS:	1	REF:	86 87
6.	ANS:	В	PTS:	1	REF:	86 87
7.	ANS:	С	PTS:	1	REF:	86 87
8.	ANS:	D	PTS:	1	REF:	86 87
9.	ANS:	А	PTS:	1	REF:	86 87
10.	ANS:	G	PTS:	1	REF:	86 87
11.	ANS:	Н	PTS:	1	REF:	86 87
12.	ANS:	E	PTS:	1	REF:	86 87

ESSAY

1. List and explain briefly mean, median, mode, and standard deviation.

ANS:

• Mean is the arithmetic average of a set of numbers.

• Median is the arithmetic value that occurs in the middle of a data set when organized from lowest to highest, where half the values are less than and half the values are greater than the median value.

• Mode is the arithmetic value that occurs most frequently in a data set.

• Standard deviation is a measure of how widely the data values are dispersed from the arithmetic mean.

PTS: 1 REF: 80 TOP: Critical Thinking

2. Describe what the arguments are for this function: =SUMIF(range,criteria,sum_range).

ANS:

- The *range* argument identifies the cell range where the criteria are located.
- The criteria argument specifies which values should be selected.

• The *sum_range* argument identifies the corresponding cell range to sum if the specified criteria have been met in the range established by the range argument. If the *sum_range* argument is omitted, the function adds the values in the range indicated by the first argument.

PTS: 1 REF: 118 TOP: Critical Thinking

3. Explain what the following four number formatting codes do when used in Excel: #, 0, ?, and %. Write one sentence about each symbol and give an example of how it can be used.

ANS:

The # symbol acts as a digit placeholder that displays significant digits (for example, ####.#). The 0 symbol acts as a digit placeholder that displays both significant and insignificant zeros (for example, 0.00).

The ? symbol acts as a digit placeholder that does not display insignificant digits, but does hold a place so that decimal points will align (for example, 0.00?).

The % symbol inserts a percentage sign and automatically multiplies the value inserted by 100 for display (for example, #%).

PTS: 1 REF: 128 TOP: Critical Thinking