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## Excel Chapter 2 — Formulas, Functions, and Formatting

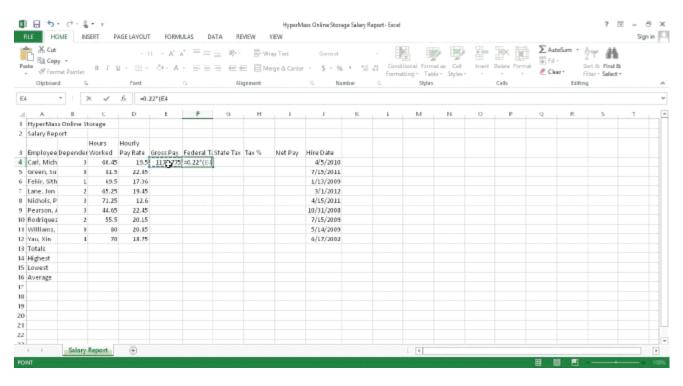
## MULTIPLE CHOICE

1.	<ul><li>A is a prewritte</li><li>a. function</li><li>b. feature</li></ul>	en form	ula that is built	c.	cel. task calculation
	ANS: A	PTS:	1	REF:	EX 66
2.	To start a new line in a. CTRL+ENTER b. TAB+ENTER	a cell,	press the	keys. c. d.	
	ANS: C	PTS:	1	REF:	EX 70
3.	When you enter a tw a. 20xx b. 30xx	o-digit	year that is less	c.	0, Excel changes the year to 18xx 19xx
	ANS: A	PTS:	1	REF:	EX 71
4.	A(n) circular rea formula that refers a. contiguous b. indexed			11. c.	da in a cell refers to another cell or cells that include direct indirect
	ANS: D	PTS:	1	REF:	EX 73
5.	a. ^ b. *			c.	rators EXCEPT % >
	ANS: D	PTS:	1	REF:	EX 75
6.	Which of the following a. =23% b. =23	ng calc	ulations multip	c.	by 0.01? =23+.01 =2401
	ANS: A	PTS:	1	REF:	EX 75
7.	When more than one of that you use a. placement b. operations				ed in a formula, Excel follows the same basic order positioning selections
	ANS: B	PTS:	1	REF:	EX 75
8.	When Excel follows a. 40 b. 26	the ord	er of operations	c.	ormula, 8 * 3 + 2, equals 48 13
	ANS: B	PTS:	1	REF:	EX 75

9. Which of the following happens when you enter the formula =G15 into a cell?

- a. Excel recalculates all formulas in the worksheet
- b. Excel assigns the sum of the values in the previous 15 cells to the active cell
- c. Excel assigns the value in cell G15 to the active cell
- d. Nothing; =G15 is an invalid formula

ANS: C PTS: 1 REF: EX 75



- 10. Point mode allows you to \_\_\_\_\_, as shown in the accompanying figure.
  - a. select cells for use in a formula using the keyboard
  - b. select a function from the Sum button list
  - c. select cells for use in a formula using the mouse pointer
  - d. edit cell contents directly in the cell

11. The adjusted cell references in a copied and pasted formula are called \_\_\_\_ cell references.

a. related

ANS: C

c. pasted

b. relative

d. alternative

ANS: B

PTS: 1

PTS: 1

REF: EX 78

REF: EX 76

- 12. You can click the \_\_\_\_ button to undo an automatic correction.
  - a. Auto Fill Options

c. Paste Options

b. AutoCorrect Options

d. Trace Error

ANS: B

PTS: 1

REF: EX 79

- 13. Which of the following Option buttons gives options for filling cells following a fill operation?
  - a. Auto Fill Options

c. Insert Options

b. AutoCorrect Options

d. Paste Options

ANS: A

PTS: 1

REF: EX 79

14. The \_\_\_\_ button lists error-checking options following the assignment of an invalid formula to a cell.

	<ul><li>a. Find Error</li><li>b. Explain Error</li></ul>			c. d.	Fix Error Trace Error
	ANS: D	PTS:	1	REF:	EX 79
15.	The Option butta. AutoCorrect b. Insert	ton lists	s formatting opt	c.	llowing an insertion of cells, rows, or columns.  Auto Fill  Paste
	ANS: B	PTS:	1	REF:	EX 79
16.	The function disa. MIN b. SUM	splays 1	the highest valu	c.	ange. MAX AVERAGE
	ANS: C	PTS:	1	REF:	EX 82
17.	Clicking the open.  a. Insert Function b b. Function dialog b c. Function button ( d. Functions & Form	ox in thoox laur HOME	ne formula bar ncher (HOME t E tab   Function	ab   Cal group)	lculations group)
	ANS: A	PTS:	1	REF:	EX 82
18.	The function de a. LOW b. BASE	termin	es the lowest nu	c.	n a range. LEAST MIN
	ANS: D	PTS:	1	REF:	EX 84
19.	The function su cells with numeric va a. DIVSUM b. RANGEAVG			c.	ed range and then divides the sum by the number of  AVERAGE  MAX
	ANS: C	PTS:	1	REF:	EX 86
20.	The AutoComp following the equal s. a. Function b. Formula		contains those	c.	ons that alphabetically match the letters you type  Equal  Calculate
	ANS: B	PTS:	1	REF:	EX 86
21.	You should a fu a. double-click or d b. click or tap			c.	AutoComplete list to select the function. right-click or triple-tap none of the above
	ANS: A	PTS:	1	REF:	EX 86
22.	box or press the ENT			-	the AVERAGE function when you click the Enter
	<ul><li>a. left parenthesis</li><li>b. right bracket</li></ul>				right parenthesis left bracket
	ANS: C	PTS:	1	REF:	EX 87

23.	Which of the following is the path to the		
	<ul><li>a. (EDITING tab   Home group)</li><li>b. (HOME tab   Editing group)</li></ul>		(HOME tab   Clipboard group) (CALCULATION tab   Editing group)
	ANS: B PTS: 1	REF:	EX 87
24.	Which of the following is the path to the		
			(HOME tab   Clipboard group)
	b. (HOME tab   Paste group)	d.	(HOME tab   Formulas group)
	ANS: C PTS: 1	REF:	EX 88
25.	To copy cell contents, you can select the		- ·
	a. CTRL+V		CTRL+B
	b. CTRL+X	d.	CTRL+C
	ANS: D PTS: 1	REF:	EX 88
26.	To paste copied cell contents, you can pr		•
	a. CTRL+C		CTRL+V
	b. CTRL+P	d.	CTRL+X
	ANS: C PTS: 1	REF:	EX 88
27.	You can use the to check which ce	lls are refe	renced in the formula assigned to the active cell.
	a. Formula Finder		Calculation Finder
	b. Range Finder	d.	Function Finder
	ANS: B PTS: 1	REF:	EX 89
28.		ize with a	specific so that all of their documents have a
	similar appearance.		4
	a. scheme		theme
	b. gallery	a.	style
	ANS: C PTS: 1	REF:	EX 91
29.	You can open the Format Cells dialog be		
	a. SHIFT+TAB		ALT+1
	b. CTRL+1	d.	SHIFT+F1
	ANS: B PTS: 1	REF:	EX 96
30.			numbers in a selected range, with the dollar sign to
	the far left with spaces between it and the	_	
	<ul><li>a. Comma style format</li><li>b. Accounting number format</li></ul>		Percent style format Currency style format
	ANS: B PTS: 1		EX 97
	7113. I	KLI'.	LA //
31.	Which of the following is the path to the		•
	a. (HOME tab   Alignment group)		(HOME tab   Cells group)
	b. (HOME tab   Font group)	a.	(HOME tab   Number group)
	ANS: D PTS: 1	REF:	EX 98

32.	a. (HOME tab   Ed	iting group)	c.	nal Formatting button?  (FORMATTING tab   Styles group)  (HOME tab   Styles group)
	ANS: D	PTS: 1	REF:	EX 100
33.	If you do not assign characters.	a format to a cell or c	cells in a c	column, the column width will remain
	<ul><li>a. 8.43</li><li>b. 7.52</li></ul>			11.65 9.43
	ANS: A	PTS: 1	REF:	EX 103
34.	When you decrease to a. 0 b. 1	the row height to	_, the rov c. d.	2
	ANS: A	PTS: 1		EX 104
35.	Which of the following			
	a. (HOME tab   Pro	oofing group)	c.	(REVIEW tab   Proofing group) (REVIEW tab   Checking group)
	ANS: C	PTS: 1	REF:	EX 108
36.	A is text and gra. header	raphics that print at th	c.	margin
	b. topper			crown
	ANS: A	PTS: 1	REF:	EX 110
37.	<ul><li>A is text and gr</li><li>a. footer</li><li>b. toe</li></ul>	raphics that print at th	c.	of every page. margin stopper
	ANS: A	PTS: 1	REF:	EX 110
38.	The default view in l	Excel is calledv	view.	
	<ul><li>a. Normal</li><li>b. Standard</li></ul>			Basic Values
	ANS: A	PTS: 1	REF:	EX 110
39.	view allows yo	ou to create or modify	a worksl	neet while viewing how it will look in printed
	<ul><li>a. Normal</li><li>b. Page Layout</li></ul>			Page Break Preview Full Screen
	ANS: B	PTS: 1	REF:	EX 110
40.	To print a range of c a. Print Active She b. Print Selection		c.	ick in the Settings area in the Print gallery Print Entire Workbook none of the above
	ANS: B	PTS: 1	REF:	EX 114

## MULTIPLE RESPONSE

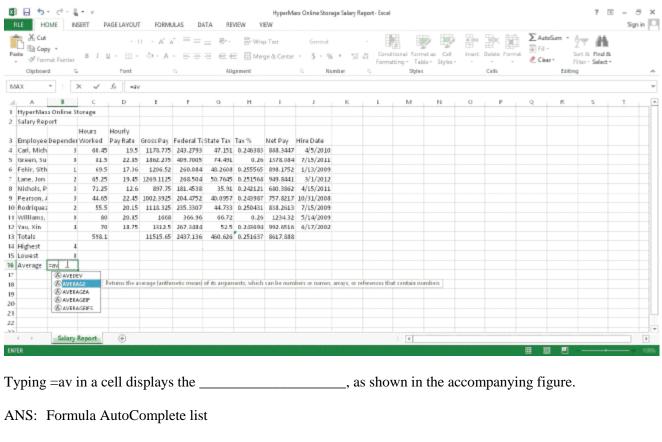
# **Modified Multiple Choice**

1.	<ol> <li>When designing a worksheet, which steps should be taken to ensure that functional consisupersede visual aesthetics?</li> <li>a. Understanding the requirements document</li> <li>b. Identification of how to format various elements of the worksheet</li> <li>c. Avoiding the temptation to use flashy or confusing visual elements within the worksheet</li> <li>d. Choosing the proper functions and formulas</li> </ol>					
	ANS: A, C, D	PTS: 1	REF:	EX 69		
2.	Which of the following a. =3 ^ 4 b. =H3/H11	ng are valid formula	c.	=11+9 =22-F15		
	ANS: A, B, C, D	PTS: 1	REF:	EX 75		
3.		copy of what you cops or acronyms las		Paste Options button? ding contents and formatting		
	ANS: A, C, D	PTS: 1	REF:	EX 80		
4.	b. the Sum menu	gesture, or pointer	c. d.	the Insert Function box in the formula bar the Name box area in the formula bar		
	ANS: A, B, C, D	P15: 1	KEF:	EX 81		
5.	using the Excel spella. check the spellin b. check the spellin c. add words to the d. add words to the	g in a single cell g of words in a select dictionary				
	ANS: A, B, C, D	PTS: 1	REF:	EX 109		
TRUI	E/FALSE					
1.	The equal sign (=) pr	recedes a formula.				
	ANS: T	PTS: 1	REF:	EX 74		
2.	The most common en	rror when entering a	ı formula i	s to reference the wrong cell in the formula.		
	ANS: T	PTS: 1	REF:	EX 74		
3.	An asterisk (*) follow perform the division	_	e in a form	ula is the arithmetic operator that directs Excel to		
	ANS: F	PTS· 1	REE.	FX 75		

4.	The ar	rithmetic opera	tor, ^, d	irects Excel to	perforn	n the division operation.
	ANS:	F	PTS:	1	REF:	EX 75
5.		algebra, you ca la calculations.		rackets to overi	ride the	order of operations Excel follows to perform
	ANS:	F	PTS:	1	REF:	EX 75
6.	Movin	ng from left to	right, th	e first calculati	on in th	ne order of operations is negation (-).
	ANS:	T	PTS:	1	REF:	EX 75
7.	Point 1	mode allows yo	ou to se	lect cells for us	e in a fo	ormula by using your finger or the pointer.
	ANS:	T	PTS:	1	REF:	EX 76
8.		Point mode to tire formula.	enter fo	ormulas often is	s faster	and more accurate than using the keyboard to type
	ANS:	T	PTS:	1	REF:	EX 77
9.	The In	sert Options b	utton lis	ts formatting o	ptions.	
	ANS:	T	PTS:	1	REF:	EX 79
10.	Excel	has more than	400 fun	ctions that perf	form jus	st about every type of calculation you can imagine
	ANS:	T	PTS:	1	REF:	EX 82
11.	Clicki	ng the Create I	unction	box opens the	Functi	on Arguments dialog box.
	ANS:	F	PTS:	1	REF:	EX 83
12.	The Su	um button men	u allow	s you to enter o	one of f	ive often-used functions easily into a cell.
	ANS:	T	PTS:	1	REF:	EX 84
13.				ch cells you wa and that contain		clude in the function by looking for ranges that are ric data.
	ANS:	T	PTS:	1	REF:	EX 84
14.	The ra	nge automatica	ally sele	ected by Excel i	is alway	ys correct.
	ANS:	F	PTS:	1	REF:	EX 84
15.	You ca	an use the arro	w keys	to complete an	entry ir	n Point mode.
	ANS:	F	PTS:	1	REF:	EX 87
16.		VERAGE fund on name.	ction red	quires that the a	argumei	nt be included within parentheses following the

	ANS: T	PTS:	1	REF:	EX 87
17.	To use Range Finder with the formula you		•	a conta	ins the intended cell references, click or tap the cell
	ANS: F	PTS:	1	REF:	EX 89
18.	When you click the I gallery.	Decrease	e Font Size but	ton, Ex	cel assigns the next highest font size in the Font Size
	ANS: F	PTS:	1	REF:	EX 92
19.	The default font for t	he Basi	s theme is diffe	rent th	an the default font for the Office theme.
	ANS: T	PTS:	1	REF:	EX 92
20.	You can click the Fo	rmat Ce	ells Dialog Box	Launc	her to open the Format Cells dialog box.
	ANS: T	PTS:	1	REF:	EX 96
21.	You cannot format a	n entire	column at once	e.	
	ANS: F	PTS:	1	REF:	EX 96
22.	22. To select a number format, you can choose a category in the Number tab in the Format Cells dia box and then select the number of decimal places, whether or not a dollar sign should be display and how negative numbers should appear.				
	ANS: T	PTS:	1	REF:	EX 98
23.	With the accounting digit in a dollar value			g dolla	r sign appears immediately to the left of the first
	ANS: F	PTS:	1	REF:	EX 99
24.					a value as a percentage, determined by multiplying arest percent, and adding a percent sign.
	ANS: T	PTS:	1	REF:	EX 99
25.	Best fit means that th	e width	of the column	will be	increased or decreased by a percentage you specify.
	ANS: F	PTS:	1	REF:	EX 103
COM	PLETION				
1.	The function, oraccomplish tasks.			of a wo	rksheet is to provide a user with direct ways to
	ANS: purpose				
	PTS: 1	REF:	EX 69		

2.		Excel recogniz		you entered a date in mm/dd/yy format, it automatically formats the dat	te
	ANS:	mm/dd/yyyy			
	PTS:	1	REF:	EX 71	
3.		f the reasons Exand Excel will		such a valuable tool is that you can assign a(n)te the result.	_ to
	ANS:	formula			
	PTS:	1	REF:	EX 73	
4.	A form	nula in a cell th	at conta	ains a reference back to itself is called a(n)	
	ANS:	circular refere	nce		
	PTS:	1	REF:	EX 73	
5.	The / a	arithmetic oper	ator ind	licates	
	ANS:	division			
	PTS:	1	REF:	EX 75	
6.	In the	order of operat	ions, th	e last operation Excel performs is	
	ANS: subtractaddition				
	PTS:	1	REF:	EX 75	
7.		range.		_ is a small black square in the lower-right corner of the active cell or	
	ANS:	fill handle			
	PTS:	1	REF:	EX 78	



	ENIER		199190000000		■ W
8.	Typin	g =av in a cell	display	s the	, as shown in the accompanying figu
	ANS:	Formula Auto	Compl	ete list	
	PTS:	1	REF:	EX 86	
9.				to verify that a formula ne cell with the formula you	a contains the intended cell references, want to check.
	ANS:	Range Finder			
	PTS:	1	REF:	EX 89	
10.	You c	an press the		key to quit	Range Finder.
	ANS:	ESC			
	PTS:	1	REF:	EX 89	
11.			co	ors jump out of a dark back	aground and are easiest to see.
	ANS:	Bright			
	PTS:	1	REF:	EX 93	
12.		rmer and coole			d to reach toward the reader are
	ANS:	warmer			
	PTS:	1	REF:	EX 93	

13.	A(n)			_ is a dot on the screen that contains a color.
	ANS:	pixel		
	PTS:	1	REF:	EX 103
14.				eans that the width of a column will be increased or decreased so the
	widest	entry will fit i	n the co	olumn.
	ANS:	Best fit		
	PTS:	1	REF:	EX 103
15.	partici	ılar report or se	is a	a technique that can be used to conceal data that might not be relevant to a data that others should not see.
	ANS: Hiding Hiding			
	PTS:	1	REF:	EX 104
16.	To set	row height to	best fit,	the bottom boundary of the row heading.
	ANS: double	e-tap e-click		
	PTS:	1	REF:	EX 107
17.	Excel	includes a(n)_		you can use to check a worksheet for spelling errors.
	ANS:	spell checker		
	PTS:	1	REF:	EX 107
18.	You c	an click the Pa	ge Layo	out button on the status bar to switch to view.
	ANS:	Page Layout		
	PTS:	1	REF:	EX 110
19.				those portions of a printed page outside the main body of the printed ank when printed.
		•		an men prince.
	ANS:	Margins		
	PTS:	1	REF:	EX 110
20.			vie	ew shows the worksheet divided into pages.
	ANS:	Page Layout		
	PTS:	1	REF:	EX 110

## MODIFIED TRUE/FALSE

1.	In designing a worksheet, visual aesthe	etics should	come first.						
	ANS: F functional considerations functionality								
	PTS: 1 REF: EX 69								
2.	Cooler colors tend to pull away from the	he reader							
	ANS: T	PTS:	1	REF: EX 93					
3.	While holding down the <u>ALT</u> key, you	can select n	onadjacent	ranges and cells.					
	ANS: F, CTRL								
	PTS: 1 REF: EX 97								
4.	The Accounting number format assign	s a <u>floating</u> c	lollar sign.						
	ANS: F, fixed								
	PTS: 1 REF: EX 97								
5.	You can choose from 12 categories of	formats in th	ne Format C	ells dialog box.					
	ANS: T	PTS:	1	REF: EX 98					
MAT	CHING								
	Identify the letter of the choice that bes	st matches th		definition.					
	<ul><li>a. ALT+ENTER</li><li>b. order of operations</li></ul>	f.	CTRL+1 function						
	c. circular reference		F7						
	d. MAX	i.		CCENT MARK (`)					
	e. CTRL+C	j.	CTRL+V						
1.	A function that displays the highest val	lue in a rang	e.						
2. 3.	Copies a formula.  A prewritten formula built into Excel.								
	Wraps text in a cell.								
5.	Spell-checking a worksheet.								
6.	A formula in a cell that contains a refer	rence back to	o itself.						
7.	Pastes a formula.								

8. Opens the Format Cells dialog box.9. Negation comes first in this.10. Displays the worksheet with formulas.

1.	ANS:	D	PTS:	1	REF:	EX 82
2.	ANS:	E	PTS:	1	REF:	EX 88
3.	ANS:	G	PTS:	1	REF:	EX 66
4.	ANS:	A	PTS:	1	REF:	EX 70
5.	ANS:	H	PTS:	1	REF:	EX 109
6.	ANS:	C	PTS:	1	REF:	EX 73
7.	ANS:	J	PTS:	1	REF:	EX 88
8.	ANS:	F	PTS:	1	REF:	EX 99
9.	ANS:	В	PTS:	1	REF:	EX 75
10.	ANS:	I	PTS:	1	REF:	EX 116

#### **ESSAY**

1. Explain what circular references, direct circular references, and indirect circular references are.

#### ANS:

A formula in a cell that creates a reference back to itself is called a circular reference. Excel often warns you when you create a circular reference. In almost all cases, circular references are the result of an incorrect formula. A circular reference can be direct or indirect. For example, placing the formula =A1 in cell A1 results in a direct circular reference. An indirect circular reference occurs when a formula in a cell refers to another cell or cells that include a formula that refers back to the original cell.

PTS: 1 REF: EX 73 TOP: Critical Thinking

2. Briefly discuss the order of operations.

#### ANS:

When more than one arithmetic operator is involved in a formula, Excel follows the same basic order of operations that you use in algebra. Moving from left to right in a formula, the order of operations is as follows: first negation (–), then all percentages (%), then all exponentiations (^), then all multiplications (\*) and divisions (/), and finally, all additions (+) and subtractions (–).

As in algebra, you can use parentheses to override the order of operations. For example, if Excel follows the order of operations, 8\*3+2 equals 26. If you use parentheses, however, to change the formula to 8\*(3+2), the result is 40, because the parentheses instruct Excel to add 3 and 2 before multiplying by 8.

PTS: 1 REF: EX 75 TOP: Critical Thinking

3. Briefly discuss displaying the formulas version of a worksheet.

#### ANS:

The values version of the worksheet shows the results of the formulas you have entered, rather than the actual formulas. Excel also can display and print the formulas version of the worksheet, which shows the actual formulas you have entered, rather than the resulting values.

The formulas version is useful for debugging a worksheet. Debugging is the process of finding and correcting errors in the worksheet. Viewing and printing the formulas version instead of the values version makes it easier to see any mistakes in the formulas.

When you change from the values version to the formulas version, Excel increases the width of the columns so that the formulas and text do not overflow into adjacent cells on the right. The formulas version of the worksheet, thus, usually is significantly wider than the values version.

PTS: 1 REF: EX 115 TOP: Critical Thinking

### **CASE**

# **Critical Thinking Questions Case 2-1**

Leo, owner of Leo's Bread Company, recently installed Excel 2013 and created a new workbook to track sales of different types of bread. He wants to determine which types of bread are the most popular among his customers. He is particularly interested in sales of rye bread, onion rolls, and bagels. Leo has formatted the sales numbers with the Accounting number format.

- 1. After Leo enters the sales numbers into the cells, he decides he does not want the fixed dollar sign to appear on the far left of the cell, separated by spaces from the actual value. He would prefer that the dollar sign appear immediately to the left of the first digit of the value. To specify a floating dollar sign, which of the following formats should Leo apply?
  - a. Comma style

c. Currency style

b. Percent style

d. General number

ANS:

 $\mathbf{C}$ 

PTS: 1

REF: EX 98

TOP: Critical Thinking

- 2. Leo wants the sales numbers for rye bread, onion rolls, and bagels to look different each time the sales for each exceeds \$500. What Excel feature can Leo use to accomplish this?
  - a. Spell checker

c. Point mode

b. Conditional formatting

d. Formulas version

ANS:

В

PTS: 1

REF: EX 100

TOP: Critical Thinking

# **Critical Thinking Questions**

**Case 2-2** 

Anna is a competitive runner. She wants to improve her performance and decides to keep track of data for six months to determine if the time of day or year she runs affects her performance. Her worksheet contains the following data: start and end time, total time, and distance.

- 3. After three months, Anna wants to the know the average distance she runs. What should she do to calculate the average distance?
  - a. Enter the text =av in a cell at the end of the distance data; then select the AVERAGE function from the Formula
- c. Enter the text =function in a cell at the end of the distance data; then select the AVERAGE function from the

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AutoComplete list and then enter the function's argument.

- b. Enter the text =ms in a cell at the end of the distance data; then select the MAX function from the Formula AutoComplete list and then enter the function's argument.
- AutoFunction list and then enter the function's argument.
- d. Enter the text =su at the end of the data in the Distance column; then select the SUM function from the Select Function list and then enter the function's argument.

ANS:

PTS: 1 REF: EX 86 TOP: Critical Thinking

- 4. Now Anna wants to know the longest total time she has run. By looking at the total time values, she finds the longest total time to be 54 minutes. Instead of manually entering that value in a cell below the total time data, Anna decides to use the MAX function to determine the longest total time. Why did Anna prefer to use the MAX function?
  - a. She believes that 54 minutes is her best running time.
  - b. The MAX function recalculates the highest value each time a new value is entered into the worksheet.
- c. She believes that 54 minutes is not her best running time.
- d. The MAX function provides a constant value that will not change for this cell when a new value is entered into the worksheet.

ANS:

PTS: 1 REF: EX 83 TOP: Critical Thinking