





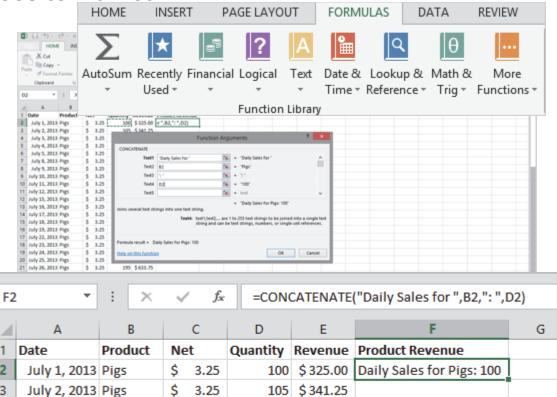
Excel 2013: Business Spreadsheets

This Little Piggy Goes to Market

Intermediate Excel Objectives In this lesson, you will learn how to:

- 1. Practice modifying cell contents and formats.
- 2. Use the Paste Special options.
- 3. CONCATENATE (combine) data with a formula.
- 4. Modify and format TEXT with formulas.
- 5. Use DATE and TIME formulas.
- 6. Use FINANCIAL formulas to calculate a payment.





110 \$357.50

3.25

July 3, 2013 Pigs







Lesson 2: Little Piggy Goes to Market

1. Readings

Read Lesson 2 in your Intermediate Excel Guide, page 51-81.

Project

Use formulas to format and modify TEXT, DATE, and TIME. Use FINANCIAL formulas to calculate a car payment.

Downloads

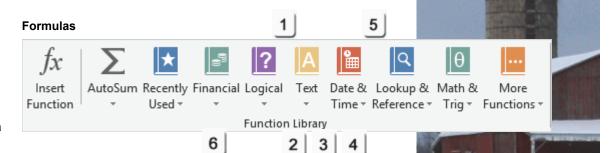
Legs Eggs Pigs 2013.xlsx Counting Chickens 2013.xlsx Brown Bag Sales Data 2013.xlsx

2. Practice

There is no Practice Activity for this lesson.

3. Assessment

Review the Test Yourself questions on page 82.



Menu Maps

This lesson introduces the Formulas Ribbon.

- 1. Formulas -> Function Library->Text -> Concatenate, page 62
- 2. Formulas -> Function Library->Text -> UPPER, page 65
- 3. Formulas -> Function Library->Text ->SUBSTITUTE, page 67
- 4. Formulas->Function Library->Date & Time->MONTH, page 69
- 5. Formulas->Function Library->Date & Time->NETWORKDAYS, page 71
- 6. Formulas->Function Library->Financial->PMT, page 79

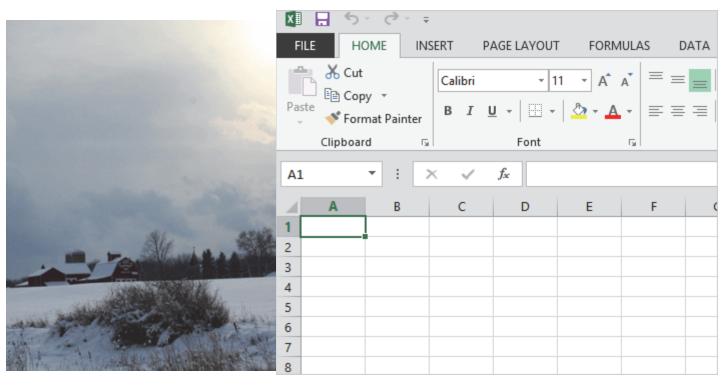






Formulas

In the previous lesson, the focus was on naming the cells that are included in a formula. We looked at the difference between **Relative** and **Absolute Cell References**. This lesson will use formulas to calculate, compare and format Text. We will also use formulas to summarize the data. I know, I know: the mere thought of formulas sends folks out the door. I believe that math is taught very poorly and that most people do NOT have a good understanding of the rules and options. This lesson will include a discussion of the math as well as what the spreadsheet software can do.



Start Microsoft Excel.

When the Welcome screen appears, open a new, blank workbook.

What Do You See from the top of the screen?

Is there a Home Ribbon? And the Insert, Page Layout, Formulas, Data. Review and View Ribbons as well? Yes.

Then you are ready to go.







Before You Begin

This discussion begins by creating a sample spreadsheet that combines all of the dates and product sales forecast from three different spreadsheets. This lesson introduces a common copy/paste error, and methods for correcting it.

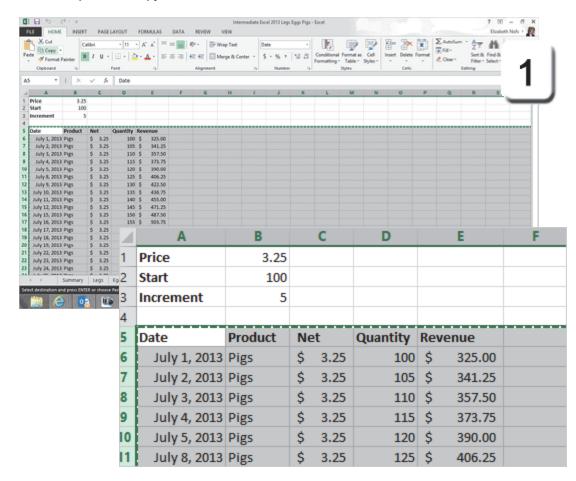
1. Try it: Open a Sample Spreadsheet
Open the spreadsheet you created in the previous
lesson Legs Eggs Pigs 2013.xlsx
Go to the Pigs spreadsheet.
Select Row 5 through Row 28.
(Do not include the Total in Row 29.)
Go to Home->Clipboard->Copy.

Go to a new spreadsheet. Select Cell A1. Go to **Home->Clipboard->Paste**. Keep going...!

Memo to Self: You can download and open the sample file or continue with the "Legs Eggs and Pigs" spreadsheet from the previous lesson.

There may be a yellow security banner at the top of the spreadsheet. Click **ENABLE** so you can work on this lesson, please. .

Home->Clipboard->Copy



Exam 77-420 Microsoft Excel 2013

2. Create Cells and Ranges

2.1 Insert Data In Cells and Ranges: Copy and Paste Data







Paste Between Worksheets

What Do You See? When you copy and paste data into a new spreadsheet, you may see many error messages. That's Excel's way of asking, "Where's the data?"

2. Try This: Review the #REF Errors
Click on any cell that says #REF!
You will see that the formulas are still there. This
example shows: D3=D2+\$B\$3.

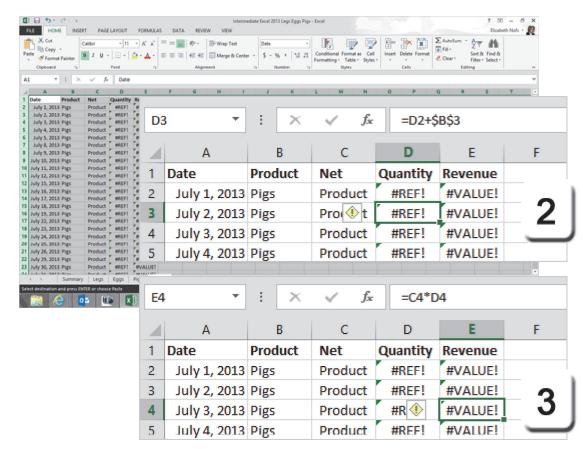
When you paste formulas into a new spreadsheet, the cell references may become meaningless. In this example, there is no **Reference Cell**, \$B\$3, so there is nowhere to look up the quantity.

3. Try This: Review the #VALUE! Errors Click on any cell that says #VALUE! You will see that the formulas are still there. This example shows: E4=C4+D4.

In this example C4 has Text, not Numbers. How do you multiply Text times Numbers? Hence, the error **#value!**

Keep going, please...

Home->Clipboard->Paste



Exam 77-420 Microsoft Excel 2013

2. Create Cells and Ranges

2.1 Insert Data In Cells and Ranges: Copy and Paste Data (Paste Errors)







Paste Errors

4. What Else Do You See? Look next to the **#REF!** message: There is an exclamation point that flags the error. This error has been identified as an **Invalid Cell Reference**.

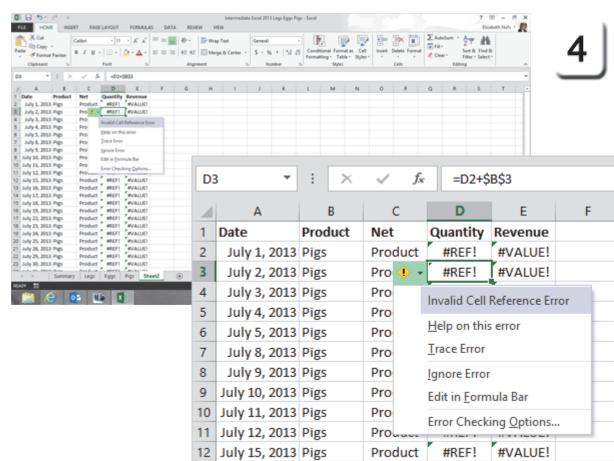
The Error options include:

Help on this error Trace Error Ignore Error Edit in the Formula Bar Error Checking Options

This **#REF!** error comes from pasting data from one spreadsheet to another, but the new spreadsheet does not include all of the Cells that the formulas **reference**.

Keep going...

Home->Clipboard->Paste



- 1. Manage and Share Workbooks
- 1.3 Manage Workbook Changes: Identify Errors







Paste Special Options

There is another method of pasting the **Values**, without the formulas.

Before You Begin: Delete the data that you just pasted. We are going to start over.

5. Try it: Paste Special
Go to the Pigs spreadsheet.
Select Row 5 through Row 28.
(Do not include the Total in Row 29.)
Go to Home->Clipboard->Copy.

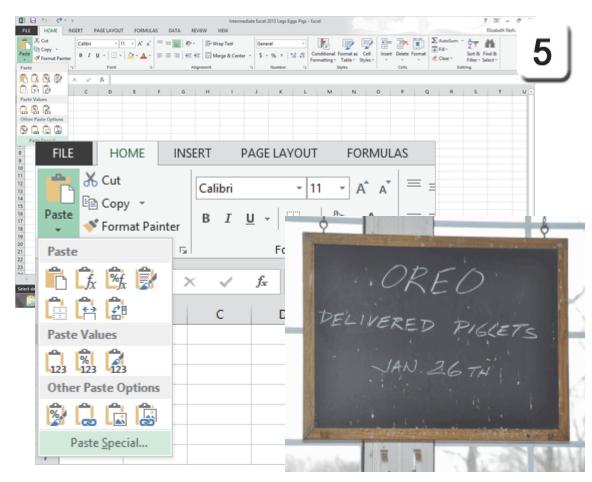
Go to a new spreadsheet, Sheet 2. Select Cell A1.
Go to Home->Clipboard->Paste.
Click on Paste Special.

What Do You See? There are four rows of Paste Options. You can choose whether to keep the formatting, formulas, or values.

What Else Do You See? The Other Paste Options include Paste Link, so you can link the data from one workbook or spreadsheet to another and synchronize the data.

Keep going, there's more. ;-)

Home->Clipboard->Paste ->Paste Special



Exam 77-420 Microsoft Excel 2013

- 2. Create Cells and Ranges
- 2.1 Insert Data In Cells and Ranges: Copy and Paste Data (Paste Special)







Paste Special

What Do You See? Paste Special lets you choose what you want to paste. The default options include: All (everything), Formulas, Values, Formats, Comments, or Validation, only.

Options to Remove Formatting

Paste Special can get rid of Formats, Themes, Borders or blanks you may have copied from the original sheet.

Operation Options

You can select the operation you want to paste: Add, Subtract, Multiply, Divide, or None.

6. OK, Paste SomethingSelect: **Values and number formats**. Click **OK**. The Rows of data will be pasted. There should be no errors.

Keep going...

Home->Clipboard->Paste ->Paste Special ->Values and Number Formats

	Paste Special ?	×		广告
Paste		Ī		作正
○ <u>A</u> II	 All using Source theme 			
<u>F</u> ormulas	 All except borders 			十具
○ <u>V</u> alues	Ocolumn <u>w</u> idths	25	150	1912
O Forma <u>t</u> s	 Formulas and number for 			THE PERSON NAMED IN
O Comments	Values and number form	ats	1	
O Validatio <u>n</u>	 All merging conditional 			I H
Operation				
None	○ Multiply		2/1	E
○ A <u>d</u> d	O <u>Di</u> vide			
○ <u>S</u> ubtract			May !	16
Skip <u>b</u> lanks	Transpos <u>e</u>		- K	
Paste Link	OK Ca	ncel		1

Exam 77-420 Microsoft Excel 2013

- 2. Create Cells and Ranges
- 2.1 Insert Data In Cells and Ranges: Copy and Paste Data (Paste Special)







Paste Special: Values

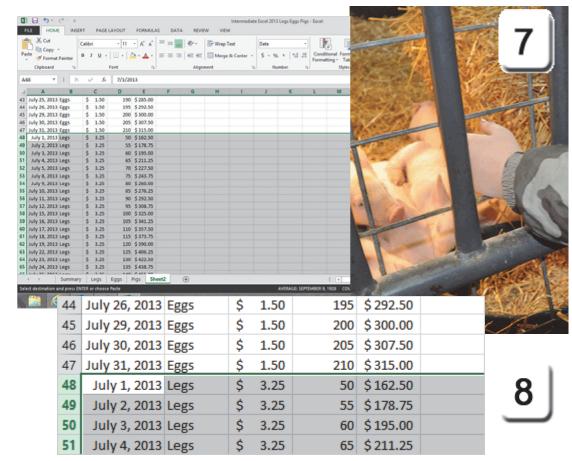
7. Try it: Paste the Sample Data
Go to the Eggs spreadsheet.
Select Row 2 through Row 24.
(Do not include the Total in Row 25.)
Go to Home->Clipboard->Copy.
Go to the new spreadsheet, Sheet 2.
Select Cell A25. Go to Home->Clipboard->Paste->
Paste Special->Values and number formats.

Go to the **Legs** spreadsheet.
Select Row 2 through Row 24.
Go to **Home->Clipboard->Copy**.
Go to the new spreadsheet, Sheet 2.
Select Cell A48. Go to **Home->Clipboard->Paste-> Paste Special->Values and number formats.**

Try This, Too: Rename the spreadsheetDouble-click the tab for this spreadsheet. Type: **Original Data for TEXT Formulas.**

8. Try This: Save the Spreadsheet Go to File->Save. Go to your Documents folder, if you wish. Type the Name: Counting Chickens 2013. Click on SAVE.

Home->Clipboard-> Paste ->Paste Special ->Values



Exam 77-420 Microsoft Excel 2013

2. Create Cells and Ranges

2.1 Insert Data In Cells and Ranges: Copy and Paste Data (Paste Special)







Format TEXT with Formulas

The next lesson demonstrates the TEXT functions. Each example creates a **Cell Reference**, and uses **Arguments** to create the formulas.

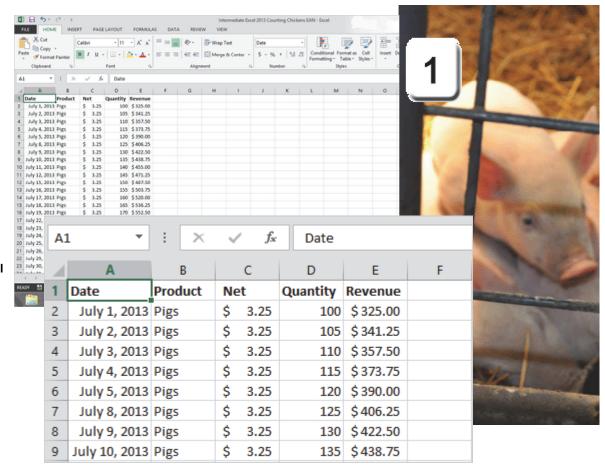
The TEXT functions include: CONCATENATE (combining fields) UPPER/LOWER SUBSTITUTE

1. Before You Begin: You can continue with the spreadsheet we have been working on or open the sample file if you wish: Counting Chickens 2013.xlsx

There should be a spreadsheet called **Original Data for TEXT Formulas**.

Keep going, please...

File->Open









Text Formulas

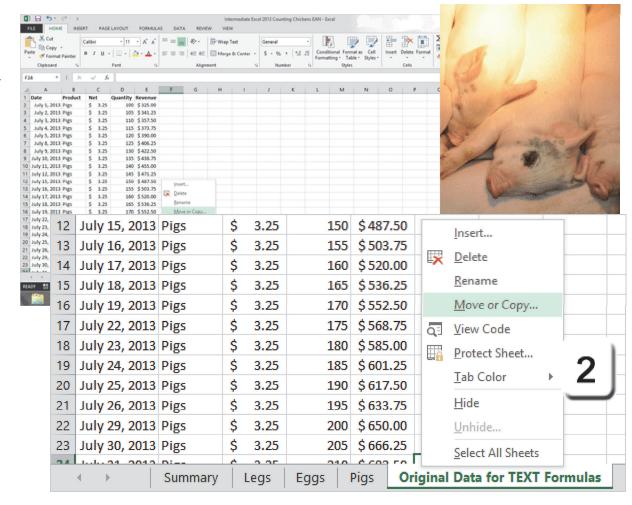
Text as well as numbers can be edited by formulas. One useful Text function combines the data from several cells.

This function also has a cool name: **Concatenate**.

2. Try This: Make a Copy
Select the Original Data sheet.
Right click and make a Copy.
Name the new sheet: Text Functions.

And Try This: Add a Label Select Cell F1. Type: Product Revenue

Keep going....



Exam 77-420 Microsoft Excel 2013

- 1. Create and Manage Worksheets and Workbooks
- 1.1 Create Worksheets and Workbooks: Copy and Move Worksheets







Text Function: Concatenate

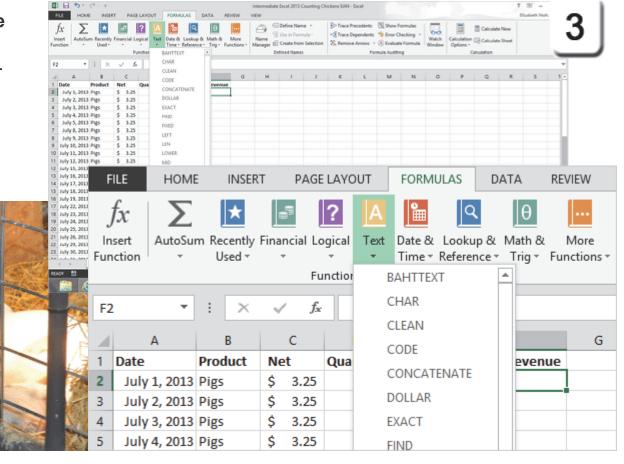
3. Try It: Concatenate the Text Select Cell F2.

Go to Formulas->Function Library-> Text. Click on: Concatenate.

Text

Keep going...

Formulas -> Function Library-> Text -> Concatenate



Exam 77-420 Microsoft Excel 2013

4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: CONCATENATE







Text Formula Options

This formula combines two cells: B2, the name of the Product, with E2, the calculated revenue.

4. Try It: Edit the Text Function Start by entering the cell references.

Edit Text1: B2 Edit Text2: D2

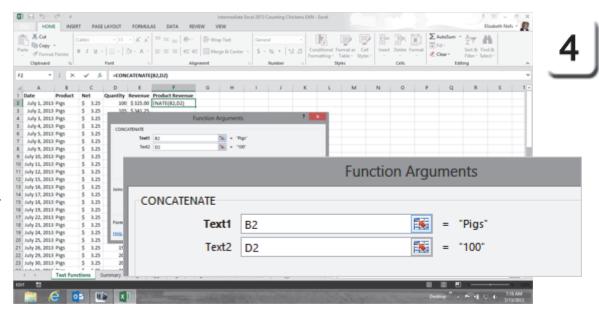
Click **OK** to CLOSE the Function Arguments.

What Do You See? The formula is =CONCATENATE(B2,D2)

This TEXT formula did, indeed, combine the fields. However, this result needs some improvements.

Keep going...

Formulas -> Function Library-> Text -> Concatenate



F2	F2 ▼ : × ✓ f _x =CONCATENATE(B2,D2)					
4	А	В	С	D	Е	F
1	Date	Product	Net	Quantity	Revenue	Product Revenue
2	July 1, 2013	Pigs	\$ 3.25	100	\$325.00	Pigs100
3	July 2, 2013	Pigs	\$ 3.25	105	\$341.25	
4	July 3, 2013	Pigs	\$ 3.25	110	\$357.50	

Exam 77-420 Microsoft Excel 2013

4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: CONCATENATE







Additional Text Fields

If you add additional Text fields, you can include labels and punctuation if you wish.

5. Try This: Use Additional Text Fields

Select Cell F2 and delete the formula.

Select Cell F2, again.

Go to Formulas -> Function Library-> Text.

Click on Concatenate.

Edit Text1: "Daily Sales for "

Edit Text2: B2

Edit Text 3: ": " Edit Text 4: D2

Click **OK**.

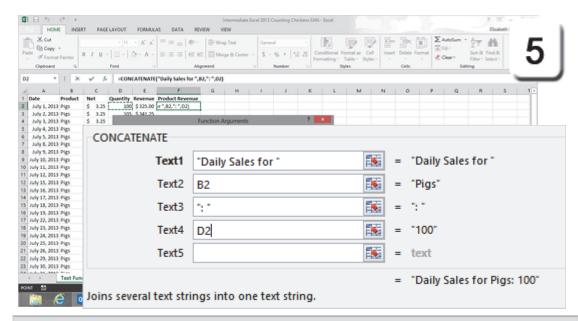
Try This, Too: AutoFill the Formula Select Cell F2.

AutoFill Cell F2 to the bottom of Column F.

What Do You See? Does your formula include the additional Text fields in the Concatenation?

Memo to Self: Whatever you type between the quotes will be displayed as text between the Concatenated Cells. If you need a space between the ": " colon and the number, then add a space to Text3 between the quotes.

Formulas -> Function Library-> Text -> Concatenate



F2		: ×	✓ f _x	=CON	=CONCATENATE("Daily Sales for ",B2,": ",D2)				
4	А	В	С	D	Е	F	G		
1	Date	Product	Net	Quantity	Revenue	Product Revenue			
2	July 1, 2013	Pigs	\$ 3.25	100	\$325.00	Daily Sales for Pigs: 100			
3	July 2, 2013	Pigs	\$ 3.25	105	\$341.25				
4	July 3, 2013	Pigs	\$ 3.25	110	\$357.50				

Exam 77-420 Microsoft Excel 2013

4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: CONCATENATE







TEXT Functions: UPPER

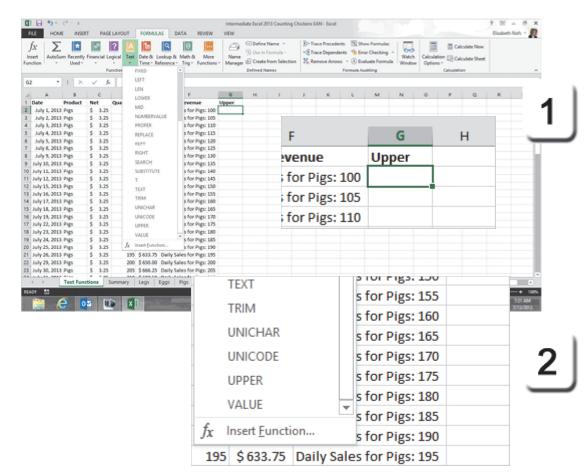
Look at the text in any spreadsheet. The data entry may not be consistent. Some people never use capital letters, and some folks make every word begin with a capital letter.

You can create a formula that formats the Text: **UPPER, LOWER, PROPER**.

- 1. Try It: Add a Label
 Go to the Text Functions spreadsheet.
 Select Cell G1.
 Type the label: UPPER
- 2. Try It: Use the UPPER Text Function Select Cell G2.
 Go to Formulas->Function Library-> Text. Click on UPPER.

Keep going, please.

Formulas -> Function Library-> Text -> UPPER



Exam 77-420 Microsoft Excel 2013 4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: UPPER







UPPER Text Arguments

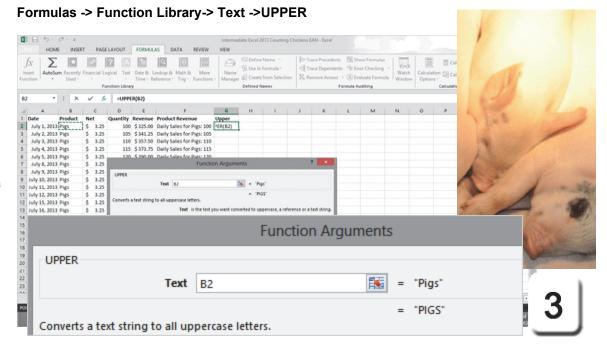
3. Try This: Edit the Function Arguments Edit the Text:B2.

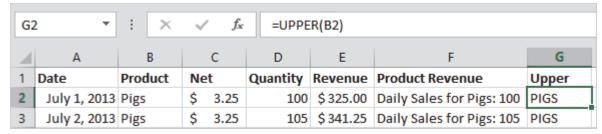
You should see a preview of the data in all capital letters, "PIGS". Click **OK**.

Try This, Too: AutoFill the FormulaUse the **AutoFill** handle to fill down this formula in Column G.

Memo to Self: The **LOWER** text function converts the text to all lowercase letters.

The **PROPER** Text function begins each word with a capital letter.





Exam 77-420 Microsoft Excel 2013

4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: UPPER







Text Functions: SUBSTITUTE

The **Substitute** Text function can find and edit specific words or phrases.

For example, you can compare the formula in Column F and **Substitute** "New Product Sales" for "Daily Sales."

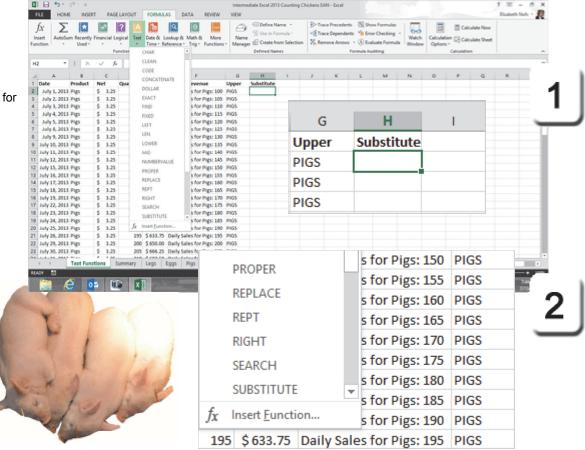
1. Try This: Add a Label
Go to the Text Functions sheet.
Select Cell H1.

Type the following label: Substitute

2. Try This, Too: Substitute the Text Select Cell H2. Go to Formulas->Function Library-> Text. Click on: SUBSTITUTE.

Keep going...

Formulas -> Function Library-> Text -> SUBSTITUTE



Exam 77-420 Microsoft Excel 2013 4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: SUBSTITUTE







SUBSTITUTE Arguments

3. Try This: Enter the Arguments Text: F2

Old text: "Daily Sales"

Microsoft Excel will compare the text in your cell, F2. and determine if your data matches this Old text.

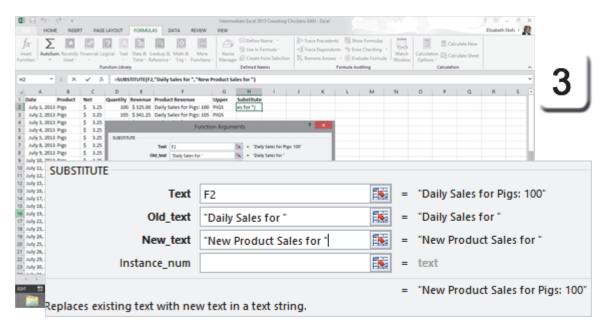
New_text: "New Product Sales for"
This is the text that Microsoft Excel will substitute when it finds a word or phrase that matches.

You should see a preview of the data to the right of the Argument.

Click OK.

Try This, Too: AutoFill the FormulaUse the **AutoFill** handle to fill down this formula in Column H.

Formulas -> Function Library-> Text -> SUBSTITUTE



=SUBSTITUTE(F2,"Daily Sales for ","New Product Sales for ")							
D	D E F G H						
Quantity	Revenue	Product Revenue	Upper	Substitute			
100	\$325.00	Daily Sales for Pigs: 100	PIGS	New Product Sales for Pigs: 100			
105	\$341.25	Daily Sales for Pigs: 105	PIGS	New Product Sales for Pigs: 105			
110	\$357.50	Daily Sales for Pigs: 110	PIGS	New Product Sales for Pigs: 110			

Exam 77-420 Microsoft Excel 2013

4. Apply Formulas and Functions

4.4 Format and Modify Text with Functions: SUBSTITUTE







Date Functions: MONTH

Businesses are "date driven." Bills need to be paid on time. The **DATE** functions can be used to format as well as calculate.

Before You Begin: Make a Copy

Select the Original Data sheet. Right click and make a **Copy**.

Name the new sheet: Date Functions.

1. Try This: Add a Label

Go to the Date Functions sheet.

Select Cell F1.

Type the following label: Date: Month

2. Try This, Too: Use a Date Function

Select Cell F2.

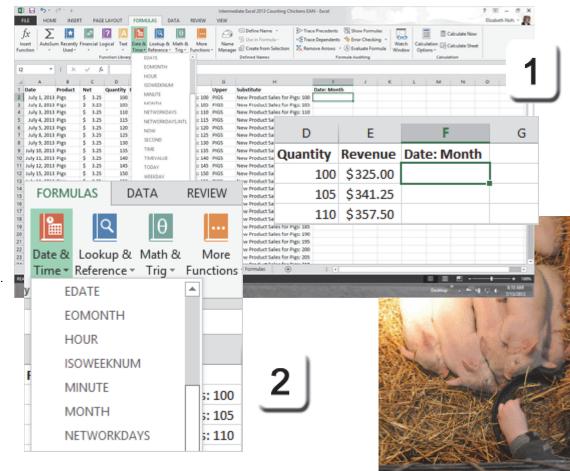
Go to Formulas->Function Library-> Date & Time.

Click on: MONTH.



Keep going...

Formulas->Function Library-> Date & Time->MONTH



- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Use Functions to Serialize Dates and Times (Month)







The MONTH Arguments

The purpose of the MONTH function is to read the date, figure out which month it is, and return a number for the month. In this example, the date is the Column A.

3. Try it: Edit the Serial_Number Edit the Serial Number: A2.

You should see a preview of the data to the right of the Arguments.

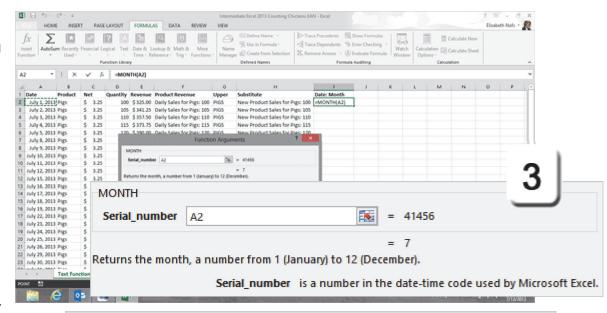
Click **OK.**

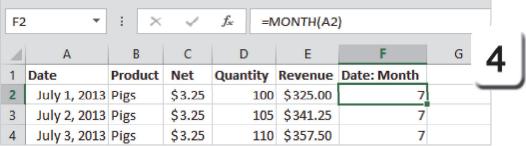
4. Try This, Too: AutoFill the Formula Use the **AutoFill** handle to fill down this formula in Column F.

July is the 7th month in the year, as shown.

OK, that's an example of the MONTH function. Excel can also use Date functions with days.

Formulas->Function Library-> Date & Time->MONTH





- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Use Functions to Serialize Dates and Times (Month)







Calculating the Date

Many businesses need to calculate the difference between the current date and the date on the transaction. Microsoft Excel has several functions for working with Dates.

Let's consider **Date**, **Today**, and **Now**. Today() and Now() both enter the date. The **Today()** function updates automatically to show the current the current date and time. The **Now()** function does not update automatically. These two functions do not have any Arguments. **Date** lets you enter the Arguments for Year, Month and Day.

1. Before Your Begin: Make a Reference Date

Select Cell G1 and type: Reference Date

Select Cell G2.

Go to Formulas->Function Library->Date & Time->Date.

Enter the Function Arguments:

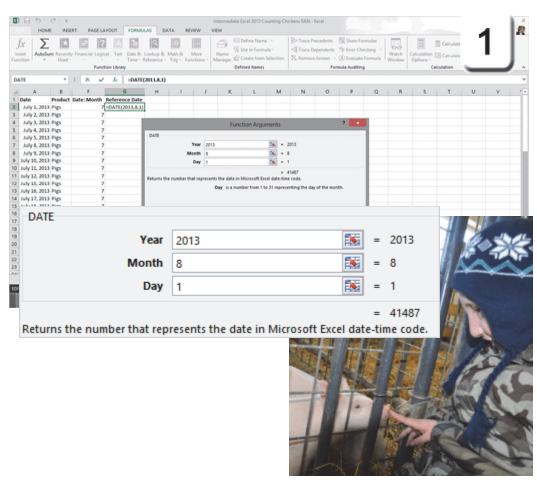
Year: 2013 Month: 8 Day:1

Click **OK** to close the Function Arguments.

Do This, Too: Copy and Paste Cell G2 to G70 (all of the Rows in this example) Keep going...

Memo to Self: Columns C, D and E are hidden in this lesson so that you can see the date in Column A and the Reference Date in Column G.

Formulas->Function Library-> Date & Time->Date



- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Use Functions to Serialize Dates and Times (NETWORKDAYS)







Formulas->Functtion Library-> Date & Time->NETWORKDAYS

Date Functions: NETWORKDAYS

The **NETWORKDAYS** Function will calculate the number of work days (Monday through Friday) from the Reference Date in Column G to the Date in Column A.

2 Try This: Add a Label

We are still on the Date Functions sheet. Select Cell H1.

Type the following label: Net Work Days

3. Try This, Too: Use a Date Function

Select Cell H2.

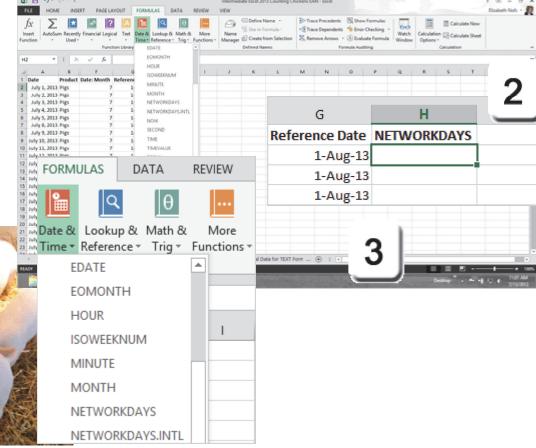
Go to Formulas->Function Library-> Date & Time.

Date &

Time ¹

Click on: **NETWORKDAYS**.

Keep going...



Exam 77-427 Microsoft Excel 2013 EXPERT

3. Create Advanced Formulas

3.3 Apply Advanced Date and Time Functions: Use Functions to Serialize Dates and Times (NETWORKDAYS)







NETWORKDAYS Arguments

4. Try it: Edit the NETWORKDAYS

Edit the Start_Date: A2. Edit the End_Date:G2

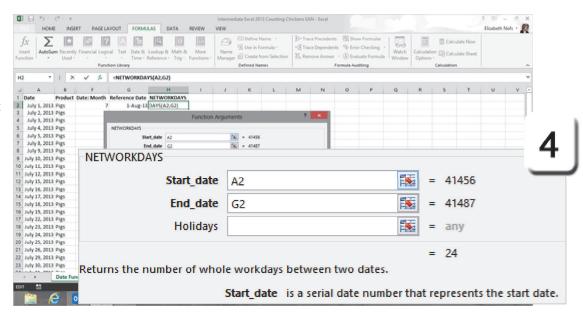
You should see a preview of the data to the right of the Arguments.
Click **OK**.

5. Try This, Too: AutoFill the FormulaUse the **AutoFill** handle to fill down this formula in Column H.

Memo to Self: The date that is displayed in the Preview is a SERIAL NUMBER. After you edit the Arguments, the work days will be displayed as a whole number.



Formulas->Function Library-> Date & Time->NETWORKDAYS



H2	2 🔻	: ×	√ f _x	=NETWORKDAY	'S(A2,G2)	5
4	Α	В	F	G	Н	
1	Date	Product	Date: Month	Reference Date	NETWORKDAYS	
2	July 1, 2013	Pigs	7	1-Aug-13	24	
3	July 2, 2013	Pigs	7	1-Aug-13	23	
4	July 3, 2013	Pigs	7	1-Aug-13	22	

- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Use Functions to Serialize Dates and Times (NETWORKDAYS)







Time Functions

How many hours or minutes are there between the Start Time and the End Time? Here are the steps to figure it out.

1. Before You Begin: Enter the Data

Select Cell J1 and type: Start Time. Select Cell K1 and type: End Time. Select Cell L1 and type: Duration. Format Cells J1, K1 and L1 **BOLD**.

Select Columns J and K.
Go to **Home->Number->Number Format.**Select the **Time** format.

Select Cell J2 and type: 8:30 AM Select Cell K2 and type: 5:00 PM

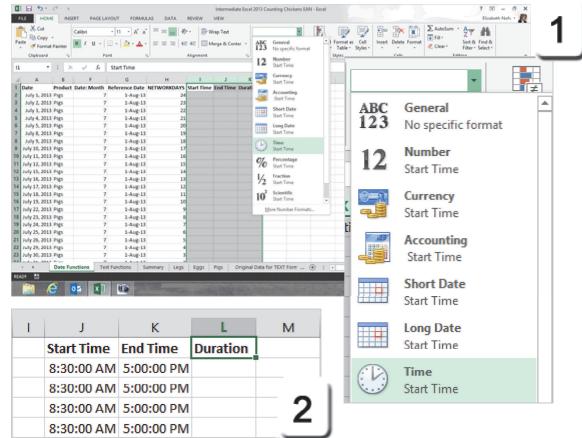
2. Copy the Data

Copy and Paste Cell J2 to J70 Copy and Paste Cell K2 to K70 (all of the Rows in this example)

What Do You See?

The Cells in Column J have: 8:30:00 AM. The Cells in Column K have: 5:00:00 PM OK, keep going...

Home->Number->Number Format->Time



- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Calculate Duration







Calculate the Duration

Duration is the number of hours, minutes and seconds from the Start Time to the End Time.

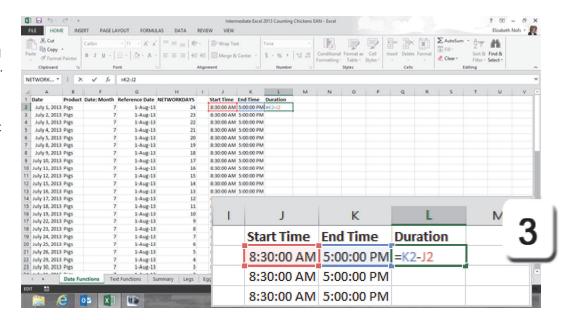
3. Try it: Calculate the DurationSelect Cell L2 and type:=K2-J2,
Where K2 is the End Time and J2 is the Start
Time.

Please **AutoFill** this formula from L2:L70. (all of the Rows in this example)

4. What Do You See? The formula and the answer are correct. However, the formatting--8:30:00 AM--is confusing.

Keep going...

Home->Number->Time



1	J	К	L	M
	Start Time	End Time	Duration	4
	8:30:00 AM	5:00:00 PM	8:30:00 AM	
	8:30:00 AM	5:00:00 PM	8:30:00 AM	
	8:30:00 AM	5:00:00 PM	8:30:00 AM	

- 3. Create Advanced Formulas
- 3.3 Apply Advanced Date and Time Functions: Calculate Duration







Format the Time

5. Try it: Format the Time

Select Column L.

Go to Home->Number->Number Format. (the little arrow in the bottom right corner)



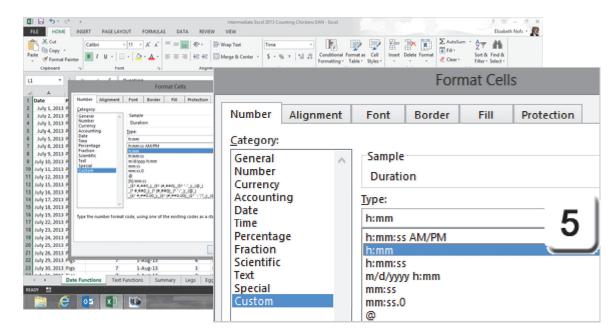
Go to the **Number** Tab. Select the **Custom Category**. Choose: h:mm

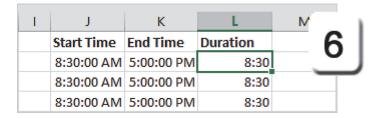
6. What Do You See? The Duration will be formatted as Hours and Minutes.

Save Your Spreadsheet.

Very good.

Home->Number->Number Format





- 2. Apply Custom Formats and Layouts
- 2.1 Apply Custom Data Formats: Create Custom Formats (Number, Time, Date)







Financial Functions

Microsoft Excel has a robust library of **Financial Functions**. Let's say that our little company, Charlotte's Website, needs a car. How would you calculate the car payments? Here are the steps.

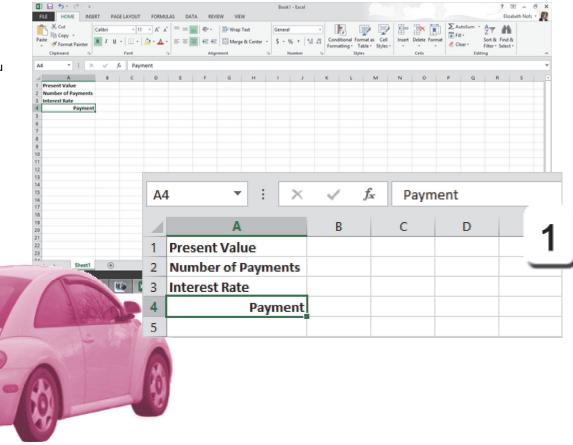
1. Before You Begin: Enter the Labels

Open a new, blank spreadsheet. Select Cell A1 and type: Present Value Select Cell A2 and type: Number of Payments Select Cell A3 and type: Interest Rate Select Cell A4 and type: Payment

If these are labels, and they are, they should be selected and formatted BOLD.

Keep going...

Home->Font->Bold



Exam 77-427 Microsoft Excel 2013 EXPERT

3. Create Advanced Formulas

3.4 Create Scenarios: Use Financial Functions







Enter and Format the Data

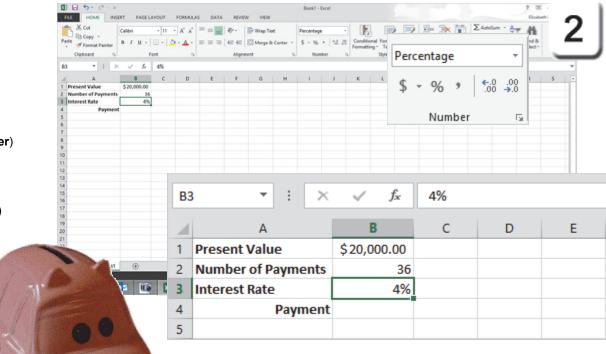
2. Try it: Enter the Data
Select Cell B1 and type: 20000
Go to Home->Number->Number Format.
Select Accounting.
This is the Present Value of the car. (Pv)

Select Cell B2 and type: 36 This is the number of payment periods. (**Nper**)

Select Cell B3 and type: .04
Go to Home->Number->Number Format.
Select Percent Style.
This is the Interest Rate for the loan. (Rate)

Keep going...

Home->Number->Number Format



Exam 77-420 Microsoft Excel 2013

2. Create Cells and Ranges

2.2 Format Cells and Ranges: Apply Number Formats







Financial Function: PMT

3. Try it: Use a Financial Function Select Cell B4.
Go to Formulas->Function Library.
Go to Financial. Click on PMT.

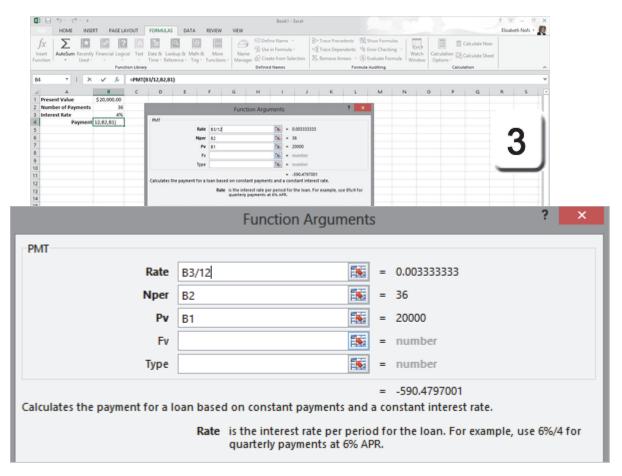


When you see the Function Arguments:

Edit the **Rate**: B3/12 Edit the **Nper**: B2 Edit the **Pv**: B1 Keep going, please...

Memo to Self: The Yearly Rate is divided by 12 to get the Monthly Rate

Formulas-> Function Library-> Financial-> PMT



Exam 77-428 Microsoft Excel 2013 EXPERT

3. Create Advanced Formulas

3.4 Create Scenarios: Use Financial Functions







PMT Arguments

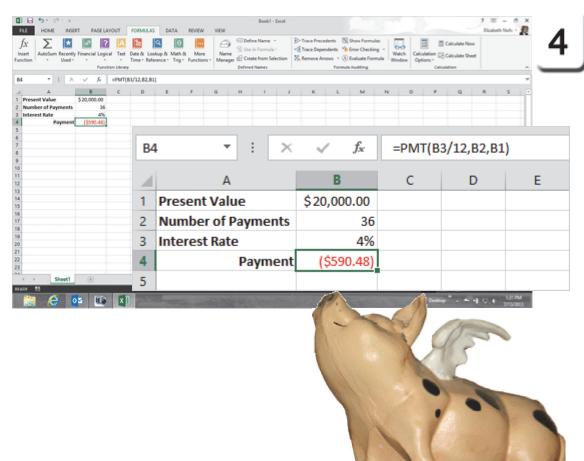
4. What Do You See? In the example on this page, the payment on a \$20,000 car would be \$590.48 per month for 36 months.

What Else Do You See? A payment is a negative number: that means money is taken away from your bank account.

Very well, that was a simple example of a financial formula. Microsoft Excel has many formulas for calculating the value of investments, Tbills, price, rate and yield.

OK, Save your work.

Formulas->Function Library->Financial->PMT



Exam 77-428 Microsoft Excel 2013 EXPERT

3. Create Advanced Formulas

3.4 Create Scenarios: Use Financial Functions







Summary

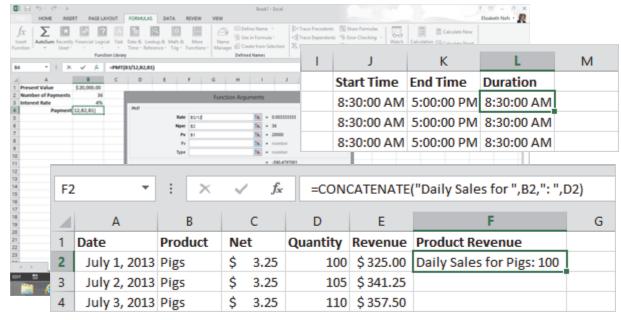
The purpose of the exercise was to use formulas, formulas, formulas. The lesson began with formulas that worked with TEXT: formatting text, combining text, and manipulating text.

We also looked at formulas that work with DATE and TIME.

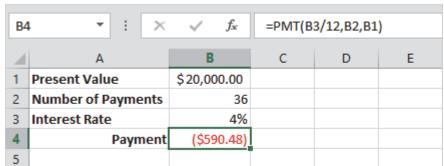
The last pages demonstrated a very simple FINANCIAL formula.

Allez Allez in Free. You done good. You get the cookie.













Practice Activities

Lesson 2: Piggy Goes to Market Before You Begin: Download the sample file: Brown Bag Sales Data 2013.xlsx

biowii bay Sales Data 2013.xisx

Try This: Do the following steps

- 1. Open the sample: Brown Bag Sales Data 2013.xlsx
- 2. Select Column E: Sort by Date.
- 3. Select Cell H1 and enter the label: UPPER
- 4. Select Cell H2 and create a Text Function that references Cell B2 and formats the Text as UPPER.
- 5. AutoFill the TEXT Function from H2:H69
- 6. Select Cell I1 and enter the label: CONCATENATE
- 7. Select Cell I2 and create a Text Function that combines Cell B2 and Cell D2.

Hint: You can use Row 2 to add the following ": "

- 8. AutoFill the TEXT Function from I2:I69.
- 9. Save this as YOUR NAME Piggy Practice.

Test Yourself

- 1. Which of the following are Paste Special Options?
- (Select all correct answers.)
- a. Values
- b. Formulas
- c. Formats
- d. Paste All

Tip: Intermediate Excel, page 58

- 2. What does the Concatenate command do?
- a. Combines the values of the selected cells
- b. Concentrates and compresses the data
- c. Filters the data

Tip: Intermediate Excel, page 62

- 3. Which command changes the formatting so each word starts with an upper case letter?
- a. Upper
- b. Change Case
- c. Proper
- d. Sentence Case

Tip: Intermediate Excel, p 65

- 4. Which of the following are text functions? (Select all correct answers)
- a. Upper
- b. Substitute
- c. Concatenate
- d. Sum

Tip: Intermediate Excel, page 60-68

- 5. Excel can calculate the number of workdays between two given dates.
- a. True
- b. False

Tip: Intermediate Excel, page 72

- 6. Excel can calculate the amount of time elapsed.
- a. True
- b. False

Tip: Intermediate Excel, page 75

- 7. Which is the correct command for calculating payments on a car?
- a. Formulas-> Calculate-> Car Payment
- b. Formulas-> Financial-> Car Payment
- c. Formulas->Function Library Financial-> PMT

Tip: Intermediate Excel, page 79