



# Microsoft Excel Dashboards: Conditional Formatting and Charts





# Excel Dashboards: Conditional Formatting and Charts

1.0-hour Zoom Session - 1.5-hour Classroom

Dashboard 1: FY-Sales       3         Clipboard – Format Painter       3         Clipboard – Copying Equations       3         Linking Cells - Totals by Quarter       4         Linking Multiple Cells - Totals by County       4         Summing Cells – Fiscal Year End Total       5         Summing Cells Across Multiple Sheate       County Total	
Create Column Charts	
Modify the Charts to Match	
FY-Sales Dashboard 11	
Dashboard 2: Monthly Data	
Conditional Formatting – Top/Bottom by Individual datasets	
Conditional Formatting – Top/Bottom Full data set	
Conditional Formatting – Net/Loss Icons	
Line Chart to Sparklines	
Modify Chart Axis Labels	
Monthly Data Dashboard 15	
Dashboard 3: Sales by Region 16	
Use "Format as a Table" for colors16	
Stacked Chart	
Create Totals by Fiscal Year	
Create Fiscal Year Charts	
Create Summary by Region	
Create Summary Sparklines	
Create a Pie Chart	
Watching Colors	
Sales by Region Dashboard	



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# Dashboard 1: FY-Sales

# Open file Dashboard-FY-Sales.xlsx

#### Clipboard – Format Painter

Because all our data is in the same location, we can copy the format from one worksheet to the next.

- 1) Turn to sheet FY 19-20
- 2) Select the entire the worksheet
- 3) Click on the **Format Painter** in the **Clipboard** group on the **Home** tab
  - Or from the right-click menu
- 4) Turn to sheet <u>FY 20-21</u>
- 5) Click in Cell A1 to paste the formatting
- 6) Again, select the entire the worksheet
- 7) Click on the Format Painter in the Clipboard group on the Home tab
- 8) Turn to sheet <u>FY 21-22</u>
- 9) Click in Cell A1 to paste the formatting

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Paste	Па Сору т	1
~	ダ Format Painter	
	Clipboard	F i

	A	В	C	D	E		F	G		н	1		
1	Fiscal Year	FY 19-20											
2													
3	Quarter	County	Pants	Shirts	Socks	То	otal			County To	tal		
4	1st Qtr	Alachua	1,474	1,174	1,008		2 656			chua 1	1 760	F	r.
5		Bradford	234	329	307	_	A	EV DO	)	C	U	E	F
6		Clay	500	396	375	1	Fiscal Yea	ar FY 20	-21				
7		Duval	1,061	792	347	2	0	6		Dente	ch late	Carla	Tabal
8				1s	t Qtr Total	3	Quarter	Coun	ty	Pants	Shirts	SOCKS	Iotai
9						4	1st Qtr	Alach	ua	1/36	1298	1146	
10	Quarter	County	Pants	Shirts	Socks	5		Bradt	ord	234	404	254	
11	2nd Otr	Alachua	1 650	1 210	200	6		Clay	_	668	388	428	
10			1,000	1,210	450	7		Duva		1153	975	575	
12		Bradford	345	369	158	8						1st Qtr To	tal
						9							
						10	Quarter	Coun	ty	Pants	Shirts	Socks	Total
						11	2nd Qtr	Alach	ua	1733	1290	1065	
						12		Bradf	ord	328	247	224	

#### Clipboard – Copying Equations

Again, because all of our data is in the same location, our formulas can be copied into the new sheets.

- 1) Turn to sheet FY 19-20
- 2) Select Columns F through I
- 3) Copy the columns
- 4) Turn to sheet <u>FY 20-21</u>
- 5) Click in Cell F1 to paste the formulas and County table



# Linking Cells - Totals by Quarter

The values for this table are at the bottom of each quarter on their respective sheets.

- 1) Turn to the sheet *Totals*
- 2) In cell E4, press the equal sign key (=)
- 3) Using your Mouse, click on sheet <u>FY 21-22</u>
  - You should now be in "point" mode
- 4) Click in cell F8
  - Look at the formula bar, your equation should be ='FY 21-22'!F8
  - DO NOT MOVE BACK TO THE TOTALS SHEET
- 5) Press the Enter key on the keyboard
- 6) Repeat for the other three quarters
  - You cannot use the fill handle here, link each of the four values

Totals by Quarter							
Quarter	FY 19-20	FY 20-21	FY 21-22				
1st Qtr	7,997	8,098	='FY 21-22'!F8				
2nd Qtr	8,578	7,650	9,586				
3rd Qtr	8,433	7,045	9,108				
4th Qtr	8,492	7,767	9,570				

#### Linking Multiple Cells - Totals by County

The values for this table can all be linked at once by using the clipboard.

- 1) Turn to sheet FY 21-22
- 2) Select I4:I7
- 3) Copy the cells
- 4) Return to sheet *Totals*
- 5) Right-click in cell L4
- 6) Choose the Paste Link icon



Totals by County						
Quarter	FY 19-20	FY 20-21	FY 21-22			
Alachua	14,760	13,254	='FY 21-22'!I4			
Bradford	3,223	2,573	3,028			
Clay	7,050	5,674	7,451			
Duval	8,467	9,059	10,477			

FY 19-20	FY 20-21
='FY 19-20'!F8	='FY 20-21'!F8
='FY 19-20'!F15	='FY 20-21'!F15
='FY 19-20'!F22	='FY 20-21'!F22
='FY 19-20'!F29	='FY 20-21'!F29

# Summing Cells – Fiscal Year End Total

This table sums the values listed in the Totals by Quarter table.

- 1) On sheet *Totals*
- 2) In cell C24, Sum the FY 21-22 values in the Totals by Quarter table
  - =SUM(E4:E7)

Fiscal Year End Total				
FY 19-20	33,500			
FY 20-21	30,560			
FY 21-22	=SUM(E4:E7)			

# Summing Cells Across Multiple Sheets – County Total

Again, because all of our data is in the same location, on the FY sheets, we can sum the same cell address across multiple sheets.

- 1) On sheet *Totals*
- 2) In cell I22, press the equal sign
- 3) Turn to sheet FY 19-20 and click on cell I4
- 4) Press and hold the Shift key on the keyboard
- 5) Click on Sheet <u>FY 21-22</u>
- 6) Look at the formula bar, your equation should be =SUM('FY 19-20:FY 21-22'!I4
- 7) Enter to accept the equation
- Because these are in sequence, in order, you can use the Fill handle for the other equations
  - Once you use the fill handle, you can change the fill options to Fill
     Without Formatting to get rid of the odd lines that appear

Cou	nty Total			
Alachua	44,581			
Bradford	8,824			
Clay	20,175			
Duval	28,003			
	(	₽, -		
		۰	<u>C</u> opy Cells	
		0	Fill <u>F</u> ormatting	g Only
		0	Fill Without Fo	ormatting
		O Flash Fill		

County Total				
Alachua	=SUM('FY 19-20:FY 21-22'!I4)			
Bradford	8,824			
Clay	20,175			
Duval	28,003			

# Create Column Charts

Because there is a Merged title above each of the datasets, you need to make the selection before you create the charts.

#### Totals by Quarter

- 1) On sheet <u>Totals</u>
- 2) Select B3:E7
- 3) On the Insert tab, choose a column chart
- 4) Modify the chart
  - a. Remove the Title Delete, or uncheck from Chart Elements Helper 🛨
  - b. Change the Colors to match the table from the Design tab, or the Style Helper  $\checkmark$
  - c. Resize and fit it under the Totals by Quarter data





#### Totals by County

- 1) Click on the edge of the Totals by Quarter chart and choose Copy
- 2) Click in an empty cell under the Totals by County table (orange)
- 3) Paste
  - If you right-click use the first choice, "Paste Destination Theme" 🚉
- 4) Change the Colors to match the table from the Design tab, or the Style Helper  $\checkmark$
- 5) Open the Select Data window
  - From the Design tab, or the Filter Data helper
- 6) Change the **Chart Data Range** to be the orange numbers
  - Delete the Chart Data Range
  - Use the mouse to select I3:L7

Select Data Source	? ×	
Chart <u>d</u> ata range: =Totals!SBS3:SES7	<b>±</b>	
	S <u>w</u> itch Row/Column	
Legend Entries (Series)	Select Data Source	? ×
FY 19-20	Chart <u>d</u> ata range: =Totals!\$I\$3:\$L\$7	Ì
<ul> <li>✓ FY 20-21</li> <li>✓ FY 21-22</li> </ul>	Entries (Series)	
Hidden and Empty Cells	Image: Second and the second seco	
	Image: FY 20-21     Image: Bradford       Image: FY 21-22     Image: Clay       Image: Dural     Image: Dural	
	Hidden and Empty Cells	Cancel
20,000 —		
15,000 —		
10,000 —		
5,000 —		
0 —		
	Alachua Bradford Clay Duval	
	■ FY 19-20 ■ FY 20-21 ■ FY 21-22	

# Modify the Charts to Match

#### Same Scale

If the data is related in two charts like this, it usually helps to have the same scale. Our Totals by Quarter chart (blue) goes from zero to 12,000. The Quarters by County (orange) goes from zero to 20,000.

- 1) Click on a chart
- 2) Double-click on the value axis, the numbers on the side of the chart
  - If it is not open already, this should open the properties pane, for the Format Axis
- 3) If needed, turn to the Chart Options 🄳
- 4) Change to the values shown here
  - Watch the Minimum, sometimes it jumps below zero
- 5) Click on the numbers in the second chart and repeat



#### Align the Charts

- 1) Click on a chart to select it
- 2) Press and hold the shift key on the keyboard and click on the second chart
- 3) Turn to the Format tab in the ribbon
  - Confirm they are the same Height and Width
  - Select the Align option and choose Top







#### **Create Pie Charts**

#### Fiscal Year End Total

- 1) Select B22:C24
- 2) From the Insert tab, create a pie chart
- 3) Modify the chart
  - Remove the Title and Legend Delete, or uncheck from Chart Elements Helper +
  - Change the Colors to match the table from the Design tab, or the Style Helper
  - Resize and fit it next to the Totals by Quarter data





#### Modify the Data Labels

- 4) From the Chart Element menu, **Data Labels**, choose **More Options...**
- 5) In the Format Data Labels Properties
  - Check the box for Category Name
  - Check the box for **Percentage**
  - Uncheck the Value
  - If needed, set the **Separator** to (New Line)
- 6) If desired, reformat the text using the font options on the Home tab



# Totals by County

- 1) Click on the edge of the Fiscal Year End Total pie chart and choose **Copy**
- 2) Click in an empty cell next to the County Total table (green) and Paste
  - If you right-click use the first choice, "Paste Destination Theme" 🗔 \_
- 3) Change the color of the chart to match the data
- 4) Open the **Select Data** window
  - From the Design tab, or the Filter Data helper  $\square$ \_
- 5) Change the Chart Data Range to be the green values =Totals!\$H\$22:\$I\$25
- 6) Fix the chart labels
  - Check Category Name \_
  - Check Percentage
  - Uncheck the Value
  - If needed, set the Separator to (New Line)
  - If desired, reformat the text using the font options on the Home tab

Select Data Source	? >
Chart data range: =Totals!SHS22:SIS25	1
Switch F	tow/Column
Legend Entries (Series)	Horizontai (Category) Axis Labeis
In Add In Edit X Remove ▲ ▼	Edi <u>t</u>
Series1	Alachua Alachua
	Bradford
	Clay
	Duval
	_

- 7) Click on a pie wedge and look at the Format Data Series (or data point)
  - Change the Angle of the first slice to rotate the pie chart so the labels fit х Format Data Series Series Options Duval П 27% Series Options Clay 20% Plot Series On <u>Primary Axis</u> Secondary Axi Bradford Angle of first slice 9% 4 60° ÷ Pie Explosion ÷ 0% Ŀ
  - \_

#### Align the charts

- 1) Click on a chart to select it
- 2) Press and hold the shift key on the keyboard and click on the second chart
- 3) Turn to the Format tab in the ribbon
  - Select the Align option and choose Top \_

# **FY-Sales Dashboard**



#### Dashboard 2: Monthly Data

#### Open file Dashboard-MonthlyData.xlsx

#### Conditional Formatting – Top/Bottom by Individual datasets

- 1. Select the FY 20-21 numbers (B2:B13)
- 2. Conditional Format Choose Top/Bottom Rules
  - a. Choose Top 10 Items...
  - b. Change to 1, with a Green Fill



- 3. Within the same selection set a Conditional Format Choose Top/Bottom Rules
  - a. Choose **Bottom 10 Items...**
  - b. Change to 1, with a Red Fill



4. Within the same selection, click the **Format Painter**, from the **Clipboard** on the **Home** tab



5. Click on cell C2 to paste the same formatting rules on FY 21-22

Months	FY 20-21	FY 21-22	Net/Loss
January	5,746	6,724	978
February	6,123	9,387	3,264
March	9,552	6,841	-2,711
April	8,472	6,574	-1,898
May	5,796	9,763	3,967
June	5,479	9,324	3,845
July	10,356	6,797	-3,559
August	6,363	7,172	809
September	5,808	7,024	1,216
October	6,807	2,425	-4,382
November	6,646	8,651	2,005
December	7,909	9,876	1,967

Months	FY 20-21	FY 21-22	Net/Loss
January	5,746	6,724	978
February	6,123	9,387	3,264
March	9,552	6,841	-2,711
April	8,472	6,574	-1,898
May	5,796	9,763	3,967
June	6,479	9,324	2,845
July	8,356	6,797	-1,559
August	6,363	7,172	809
September	5,808	7,024	1,216
October	6,807	4,125	-2,682
November	6,646	8,651	2,005
December	7,909	9,876	1,967

#### Conditional Formatting – Top/Bottom Full data set

- 1. Select the Data (B17:N24)
- 2. Conditional Format Choose Top/Bottom Rules
  - a. Choose **Top 10...**
  - b. Change to 3, with a Green Fill
- 3. Conditional Format Choose Top/Bottom Rules
  - a. Choose Bottom 10...
  - b. Change to 3, with a Red Fill

County	Fiscal Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Alachua	FY 20-21	2,660	3,350	3,318	2,859	798	2,378	935	2,940	638	2,586	813	1,980
Bradford	FY 20-21	456	1,282	2,192	1,028	133	1,075	1,786	578	156	697	1,378	1,380
Clay	FY 20-21	2,361	366	462	1,052	2,316	1,487	3,703	1,978	2,941	1,680	1,431	3,302
Duval	FY 20-21	269	1,125	3,580	3,533	2,549	1,539	1,932	867	2,073	1,844	3,024	1,247
Alachua	FY 21-22	3,099	3,312	3,109	524	2,815	3,068	1,702	2,623	3,026	1,198	2,911	3,381
Bradford	FY 21-22	184	1,798	641	2,358	1,322	2,291	1,920	117	2,153	1,569	1,490	1,538
Clay	FY 21-22	777	2,489	2,558	1,330	1,766	849	1,394	2,148	937	889	1,404	2,502
Duval	FY 21-22	2,664	1,788	533	2,362	3,860	3,116	1,781	2,284	908	469	2,846	2,455

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Conditional Format as

<u>D</u>ata Bars

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Formatting - Table -

Highlight Cells Rules →

Top/Bottom Rules

Normal

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Directional

Explanator

#### Conditional Formatting – Net/Loss Icons

- 1. Select the Net/Loss numbers (D2:D13)
- 2. Conditional Format Choose Icons
  - a. Use a Directional Arrows
- 3. Open the Conditional Formatting menu again and choose Manage the Rules
  - a. Click Edit Rule...
  - b. Check the **Show Icon Only** option

		_	
Conditional Formatting Rules Manager		🔛 <u>N</u> ew Rule	
		🔝 Clear Rules	M 🔊 🔊 🖊
Show formatting rules for: Current Selection	$\sim$	Manage Rules	
			🏫 🔊 予 🔊 🌵
Bew Rule	te Rule		1
Rule (applied in order shown) Format	Appliesto	Stop If True	
Icon Set 🛛 🗌 🏓 🤟	Edit Formatting Rule		? ×
	<u>S</u> elect a Rule Type:		
	Format all cells based on their values		
	Format only cells that contain		
	Format only top or bottom ranked valu	es	
	Format only values that are above or b	elow average	
	Format only unique or duplicate values	5	
	► Use a formula to determine which cells	to format	
	Edit the Rule Description:		
	Format all cells based on their values:		
Net/Loss	Format Style: Icon Sets		
4	line Shile		
	icon style:	Show Icon Only	
T	Display each icon according to these rule	15°	
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T	when < 67 and	>= > 33	Percent
<b>•</b>	2/ v when < 07 and		
<b>.</b>	🔶 💌 when < 33		

# Line Chart to Sparklines

- 1. Delete the horrible charts
- 2. Select the Data (C17:N24)
- 3. Click on the lightning bolt icon that appears in the bottom right of the selection.
- 4. Quick Analysis
  - a. Choose Sparklines
  - b. Use the Line option
  - c. Use the **Sparkline** tab to format the line



File	Home	Insert	Page L	ayout	Formulas	Data	Review	View	Developer	Help	Acrobat	Design	♀ Tell me	e , ∕2, Shar
Edit Data ▼	Line	Column	Win/ Loss		igh Point ow Point egative Poin	ts	First Poin Last Point Markers		$\sim$	$\sim$	$^{\wedge}$		Axis	d Group Ungroup Clear →
Sparkli		Туре			Sh	ow					Style		Gr	oup

# Modify Chart Axis Labels

- 1. Select the top chart
- 2. Open the Select Data window
  - a. From the Design tab, or the Filter Data helper 🝸
- 3. Click the Edit button for the Horizontal (Category) Axis Labels
- Select the titles from the bottom table, B16 through M16 (Jan-Dec)
   <u>Note:</u> You could also type in the values you want. Jan, Feb, Mar,...

Select Data Source		? ×			
Chart <u>d</u> ata range: ='Monthly Data'!\$A\$1:\$C\$13		<u>↑</u>			
Legend Entries (Series)	Row/Column Horizontal (Category) Axis Label				
	April May	Axis Labels		?	×
Hidden and Empty Cells	Ok	<u>A</u> xis label range: ='Monthly Data'!	ISB\$16:\$M\$16 1	= Jan, Feb, Ma Cance	۲, ۱

# Monthly Data Dashboard

	Α	В	С	D	E	F	G	Н	I.	J	K	L	М	Ν	0
1	Months	FY 20-21	FY 21-22	Net/Loss											
2	January	5,746	6,724							FY 20-21	FY 21-22				
3	February	6,123	9,387	1	12,000										
4	March	9,552	6,841		10 000										
5	April	8,472	6,574		10,000										
6	May	5,796	9,763	1	8,000	)									
7	June	6,479	9,324	1										_	
8	July	8,356	6,797		6,000										
9	August	6,363	7,172	->	4.000									_	
10	September	5,808	7,024	->>	4,000										
11	October	6,807	4,125	4	2,000	)	_								
12	November	6,646	8,651	1											
13	December	7,909	9,876	1	0	lan	Feb	Mar	Apr Ma	av lun	lul	Aug	Sep 0	et Nov	Dec
14						2011	1 0.5	THUI	, p	5, 500	241	1106	54 6		bee
15															
16	County	Fiscal Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
17	Alachua	FY 20-21	2,660	3,350	3,318	2,859	798	2,378	935	2,940	638	2,586	813	1,980	$\sim$
18	Bradford	FY 20-21	456	1,282	2,192	1,028	133	1,075	1,786	578	156	697	1,378	1,380	$\sim \sim$
19	Clay	FY 20-21	2,361	366	462	1,052	2,316	1,487	3,703	1,978	2,941	1,680	1,431	3,302	$\sim$
20	Duval	FY 20-21	269	1,125	3,580	3,533	2,549	1,539	1,932	867	2,073	1,844	3,024	1,247	$\sim\sim$
21	Alachua	FY 21-22	3,099	3,312	3,109	524	2,815	3,068	1,702	2,623	3,026	1,198	2,911	3,381	$\sim\sim\sim$
22	Bradford	FY 21-22	184	1,798	641	2,358	1,322	2,291	1,920	117	2,153	1,569	1,490	1,538	$\sim\sim\sim\sim$
23	Clay	FY 21-22	777	2,489	2,558	1,330	1,766	849	1,394	2,148	937	889	1,404	2,502	$\sim$
24	Duval	FY 21-22	2,664	1,788	533	2,362	3,860	3,116	1,781	2,284	908	469	2,846	2,455	$\sim \sim \sim$

#### Dashboard 3: Sales by Region

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#### Open file Dashboard-SalesByRegion.xlsx

#### Move data away from the corner

- 1) Right-click on Row 1 and choose Insert
  - Entire Row
- 2) Right-click on Column A and choose Insert
  - Entire Column

#### Use "Format as a Table" for colors

- 1) Click inside the dataset
- 2) From the Home tab choose Format as Table and choose a style and click OK

General		-			Normal	Form	at As Table	?	×
\$ ~ %	9 500 -	00 Cond <sup>≹0</sup> Forma	litional atting ~	Format as Table ~	Calculation	<u>W</u> here	is the data for yo SBS6:SES30	ur table?	Ţ
Nui	mber			Light			My table has he	aders	
к	L	М	N				ОК	Car	ncel

#### 3) From the Table Design tab, turn on the Total Row

✓ Header Row	First Column	✓ Filter Button	
✓ Total Row	Last Column		
Banded Rows	Banded Columns		
	Table Style Options		

- 4) Change each total to be a SUM
- In the Table Tools Design tab, choose Convert to Range to remove the table structure
  - a. This will keep the colors



May 2022	53	96	63
Jun 2022	98	84	24
Total	-		1235
	None Average Count Count Number		
	Min Sum StdDev		
	Var More Function		

#### **Stacked Chart**

- 1) Select B2:B26 (not the totals)
- 2) From the Insert tab, choose the small column chart, the second option Stacked



- 3) Resize and place chart from G2:GP14
- 4) Remove the chart title
- 5) Reformat the dates in B3:B26
  - a. Select the cells
  - b. Open the Format Cells Window
  - c. From the custom formats, type MM/DD





#### Create Totals by Fiscal Year

- 1) Select C2:E2 (Titles), Copy
- 2) Right-click in cell H16
- 3) Choose Paste
- 4) Create Titles in G16:G18
- 5) In H17, create the total for FY 20-21 North
  - a. June 2020-July 2021 =SUM(C3:C14)
- 6) In H18, create the total for FY 21-22 North
  - a. June 2020-July 2021 =SUM(C15:C26)
- 7) Fill or copy H17:H18 for East and South

Fiscal Yr	North	East	South
FY 20-21	625	806	616
FY 21-22	770	687	619

**Show Formulas** is on the Formula tab in the Formula Auditing group

Fiscal Yr	North	East	South
FY 20-21	=SUM(C3:C14)	=SUM(D3:D14)	=SUM(E3:E14)
FY 21-22	=SUM(C15:C26)	=SUM(D15:D26)	=SUM(E15:E26)

# **Create Fiscal Year Charts**

- 1) Create a column chart for the Summary by Fiscal Year
  - a. Remove the Chart Title
  - b. Move Legend to the top
  - c. Resize to fit in **G19:J27**
  - d. Switch Row/Columns





#### Create Summary by Region

- 1) Select C2:E2 (Titles), Copy
- 2) Right-click in cell **L16**
- 3) Choose Paste Transpose
- 4) Link North to the corresponding Sum
  - Click in cell M16
  - Type the equal sign =
  - Click on North's total =C27
  - Press Enter to accept
- 5) Repeat for the other Regions

# Create Summary Sparklines

- 1) Click in the cell N17, next to North's Total
- 2) From the Insert tab, choose Column from the Sparkline group



3) Select all of North's numbers and click OK

Create Sparkline	5		?	$\times$
Choose the data	that you want			
<u>D</u> ata Range:	C3:C26			Ť
Choose where w	ou want the spa	arklines to b	e placed	
choose where y				
Location Rang	e: \$N\$17			Ť
Location Rang	e: \$N\$17			Ť

- 4) Repeat for the other three regions
- 5) Select N16:P19
- 6) From the **Home** tab, open the **Merge and Center** menu and choose **Merge Across**

North	1395	
East	1493	
South	1235	

⇔	Merge & <u>C</u> enter	
<b></b>	Merge <u>A</u> cross	
	<u>M</u> erge Cells	
	<u>U</u> nmerge Cells	
1		



North	=C27
East	=D27
South	=E27

# Create a Pie Chart

- 1) Select L17:M19 (North:South)
- 2) From the Create tab, choose a Pie chart
- 3) Format:
  - a. Remove the Title
  - b. Move the legend to the side
  - c. Turn on the Data Labels
    - Percentage
  - d. Resize the chart so it fits

st ∎South			_	Label Contains
				Value <u>F</u> rom Cells
North	1395			Series Name
East	1493	111.1.111		Category Name
South	1235			<u>V</u> alue
<b>0</b>		0		✓ Percentage
-				✓ Show Leader Lines
	30%	34%	North	Legend key
0	•••		East O	S <u>e</u> parator , 💌
			South	Reset Label Text
-	36			Label Position
		0		○ <u>C</u> enter

# Matching Colors

Since all of the charts have Blue North, Orange East, Gray South, we can make this flashier by color coding the titles in our tables as well.

Change text color to be white or light gray

- 1) Fill Blue: C2, H16, L16
- 2) Fill Orange: D2, I16, L17
- 3) Fill Gray: E2, J16, L18

*Tip:* Use the Ctrl key to pick them up individually and change the format for all three at once.

Make sure you use the same colors show here, so if you change **Colors** on the **Page Layout** tab they stay consistent.



# Sales by Region Dashboard

