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ed to an Excel worksheet. All other
Please be aware that formula

Excel Worksheet Name

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Welcome!

Before completing this exercise you need to have completed the other BEFORE CLASS UNITS.

Introduction to Automotive Accounting
Balance Sheet Fundamentals
Income Statement Fundamentals
Cash Flow Management Fundamentals

We have a few learning objectives for you as you work through this exercise. Mostly it's a preview of what we will cover from pages 3 through 8 in your workbook in our first session as well as a hands on review of the four modules you worked through previously.

Our goals are to reinforce:

What is a Chart of Accounts.

What is PCL Chaining. (Page, Column, Line)

The Accounting Equation: $Assets = Liabilities + Owner's Equity$

What is a debit and what is a credit.

Observing how a transaction makes it onto the financial statement.

A Balance Sheet is a visual representation of the Accounting Equation. Left Side = Right Side

Every transaction impacts at least two accounts and Debits = Credits, ALWAYS!

Debits are a destination. Credits are a source.

INSTRUCTIONS: Read completely before starting this exercise!

- 1 **There are 6 tabs across the bottom of this spreadsheet. PRINT each tab before you start.**
Beginning balances for the selected accounts are entered into the T-Accounts and Financial Statement. As you build the journal entries for the transactions you will be able to refer back to these printed pages to see what has changed.
- 2 The only input you have is in the "Transactions -Journal Entries" tab. There are shaded boxes that you will fill in with the appropriate dollar amount. The transaction is described beneath the journal entry. Read through the description and input the dollar amount in the shaded box next to the proper account. The amounts are given to you as well as if they are debits (DR) or credits (CR). Keep in mind DR = CR.
- 3 How do you tie this together? Look at the first transaction. You have borrowed \$500,000.
Begin with the Chart of Accounts. Cash is an Asset. It is a usual debit. A debit increases a usual debit. The Chart of Accounts tells you the PCL is 1,3,2. So cash is on page 1 of the financial statement, in the third column, on line #2. When you entered the \$500,000 in the debit box in the journal entry tab, it was posted to the T-Account labeled Cash, on the left side which increases cash. When you look at the balance sheet you see cash increased \$500,000.
- 4 As you complete the journal entries, flip between tabs and see what changed compared to your printed copy. When you complete the 8 journal entries, compare your Financial Statement to the Final Answer. They should match. Print & scan your financial statement (Tab 5) and upload it to the dropbox provided. This will count 50 points toward your final grade.

CHART OF ACCOUNTS

<u>Account #</u>	<u>Account Name</u>	<u>Account Type</u>	<u>Usual Debit</u>	<u>Usual Credit</u>	<u>PCL Chain</u>
1010	Cash	Asset	x		1,3,2
1110	CIT	Asset	x		1,3,3
1210	Accounts Recievable - Parts, Service, Body	Asset	x		1,3,7
1220	Accounts Recievable - Incentives	Asset	x		1,3,8
1310	New Vehicle Inventory	Asset	x		1,3,12
1320	Pre-Owned Vehicle Inventory	Asset	x		1,3,13
1510	Computer Equipment	Asset	x		1,3,19
2110	Accounts Payable - Trade	Liabilities		x	1,7,2
2130	Notes Payable - New (Floorplan)	Liabilities		x	1,7,3
2150	Current Portion of Long Term Debt	Liabilities		x	1,7,4
2710	Long Term Debt - Notes Payable	Liabilities		x	1,7,9
3300	Paid In Capital	Equity		x	1,7,15
3900	Retained Earnings	Equity		x	1,7,16
4010	Sales - New Vehicle	Sales/Income		x	2,2,2
4020	Sales - Pre-Owned Vehicle	Sales/Income		x	2,2,2
5010	Cost of Sales - New Vehicle	Cost Of Sales	x		
5020	Cost of Sales - Pre-Owned Vehicle	Cost Of Sales	x		
6010	Sales Compensation	Expense	x		2,2,6
6210	Floorplan Interest Expense	Expense	x		2,2,9
6220	Advertising Expense	Expense	x		2,2,10
7020	Rent Expense	Expense	x		2,2,14
7030	Other Interest Expense	Expense	x		2,2,15
8000	Other Income	Sales/Income		x	

PCL Chain is a mapping reference to the financial statement **Page, Column and Line** number.

Important There is no PCL for Cost of Sales because most financial statements do not show cost of sales. Line 2 of the income statement is Sales. Line 3 is Gross Profit. Gross Profit is Sales less Cost of Sales (COS). A simple example: Sell a vehicle for \$33,500. The cost of the vehicle (COS) is \$32,100 so the GP is \$1,400. The GP PCL is 2,2,3. There is no Gross Profit account. It is the difference between Sales and COS.

es.

Account Name

	DR	CR	Account #	DR	CR
1	Cash		1010	500,000	
	Current Portion of Long Term Debt			2150	92,000
	Notes Payable - Long Term Debt			2710	408,000

The dealer is planning some capital improvements in the service department.
 Start of the month, take out a 5 year working capital loan for \$500,000 (DR) increases cash.
 The next 12 payments (the current portion of the loan) total \$92,000(CR).
 The 48 payments (\$408,000 CR) after that are considered long term (months 13 to 60)
 Cash goes up, current and long-term loans go up.

2	Cash		1010	2,000	
	Contracts in Transit		1110	30,000	
	A/R Incentives		1220	1,500	
	Sales - New Vehicle		4010		33,500
	Cost of Sales - New Vehicle		5010	32,100	
	Inventory - New Vehicle		1310		1,400

You sell a new vehicle for \$33,500 (CR). The customer puts \$2,000 (DR) cash down and applies \$1,500 (DR) factory incentive to the deal. The balance, \$30,000 (DR) is financed through the F&I Office. The vehicle cost is \$32,100 (DR & CR)
 Note: Two parts to the transaction; revenue recognition and inventory reduction.
 Revenue: Cash goes up (down payment), CIT goes up, A/R Receivable goes up, revenue goes up
 Inventory: Cost of sale goes up, inventory goes down.
 The gross profit on the deal is the sale price less the cost of sale (inventory cost).

3	Cash		1010	30,000	
	Contracts in Transit		1110		30,000
	Notes Payable - New (Floorplan)		2130	32,100	
	Cash		1010		32,100

Three days later the deal is funded and you receive the \$30,000 (DR & CR) in your checking account due on the CIT.
 You immediately pay the floorplan amount of \$32,100 (DR & CR) on that vehicle to remain in Trust
 Cash goes up, CIT goes down, Floorplan goes down, Cash goes down.

4	Cash		1010	2,000	
	Other Income		8000		2,000

The dealer receives \$20,000 (DR & CR) from their OEM. This is an incentive tied to their overall facility compliance standard. The dealer elects to recognize this payment "below the line" in other income as it does not directly tie to a specific department.
 Cash goes up, other income goes up.

5	Notes Payable - Long Term Debt		2710	7,541	
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Other Interest Expense	7030	1,667	
Cash		1010	9,208

At the end of the month it is time to make the first loan payment on the working capital loan. The payment amounts are \$7,541 (DR) principal, \$1,667 (DR) interest. Total cash out the door is \$9,208 (CR). Notice you reduced the long term debt, not the current portion. That is because until you have less than 12 future payments there will always be 12 months in the current portion.

Notes Payable goes down, Interest Expense goes up, Cash goes down.

6 Computer Equipment	1510	15,000	
Accounts Payable - Trade		2110	15,000

The service department purchases 10 iPads for technicians to use and communicate with customers. These assets will be capitalized (not immediately expensed). The invoice will be paid 30 days after delivery. Total expenditure is \$15,000 (DR & CR). Fixed Assets go up, Accounts Payable goes up.

7 Cash	1010	8,500	
Accounts Receivable - Parts, Service, Body Shop		1210	8,500

Jake's Body Shop pays invoice #1235 due for parts purchased last month. The total is \$8,500 (DR & CR). Cash goes up, A/R goes down.

8 Payroll Expense	6010	15,000	
Floorplan Interest Expense	6210	1,000	
Advertising Expense	6220	9,000	
Rent Expense	7020	6,000	
Cash		1010	31,000

For illustration purposes, all these expenses happen on the same day, cash is leaving the building for various reasons. Payroll \$15,000 (DR), Floorplan Interest \$1,000 (DR) Advertising \$9,000 (DR) and Rent \$6,000 (DR). Total checks written \$31,000 (CR) All Expenses go up, Cash goes down.

693,408 662,708

T ACCOUNTS

+ -	+ -	- +	- +
CASH	CIT	PAID IN CAPITAL	RETAINED EARNINGS
800,000 Beg Bal	150,000 Beg Bal	Beg Bal 1,000,000	Beg Bal 262,500
500,000	30,000 30,000		
2,000			
30,000	150,000 End Bal	End Bal 1,000,000	End Bal 262,500
32,100	+ -	- +	- +
2,000	A/R INCENTIVES	SALES NEW	SALES PRE-OWNED
8,500 9,208	15,000 Beg Bal	Beg Bal 500,000	Beg Bal 500,000
31,000	1,500	33,500	
1,270,192 End Bal	16,500 End Bal	End Bal 533,500	End Bal 500,000
+ -	+ -	+ -	+ -
A/R P,S,BS	INVENTORY PRE OWNED	COS NEW	COS PRE-OWNED
30,000 Beg Bal	400,000 Beg Bal	475,000 Beg Bal	450,000 Beg Bal
8,500		32,100	
21,500 End Bal	400,000 End Bal	507,100 End Bal	450,000 End Bal
+ -	- +	+ -	+ -
INVENTORY NEW	A/P TRADE	SALES COMPENSATION	FLOORPLAN INTEREST EXP
1,650,000 Beg Bal	Beg Bal 35,000	0 Beg Bal	0 Beg Bal
1,400	15,000	15,000	1,000
1,648,600 End Bal	End Bal 50,000	15,000 End Bal	1,000 End Bal
+ -	- +	+ -	+ -
COMPUTER EQUIPMENT	ST PORTION OF LTD	ADVERTISING EXP	RENT EXP
2,500 Beg Bal	Beg Bal 0	0 Beg Bal	0 Beg Bal
15,000	92,000	9,000	6,000
17,500 End Bal	End Bal 92,000	9,000 End Bal	6,000
- +	- +	+ -	+ -
NOTES PAYABLE - NEW	LTD - NOTES PAYABLE	OTHER INTEREST EXP	OTHER INCOME
Beg Bal 1,675,000	Beg Bal 0	0 Beg Bal	Beg Bal 0
32,100	408,000	1,667	2,000
	7,541		
End Bal 1,642,900	End Bal 400,459	1,667 End Bal	End Bal 2,000

2020 OEM FINANCIAL STATEMENT
 Month/Year Jan-20 Through Jan-20
 BALANCE SHEET

Page 1

<u>Assets</u>	<u>Acct #</u>	<u>Amount</u>	1	<u>Liabilities</u>	<u>Acct #</u>	<u>Amount</u>
Cash	1010	1,270,192	2	A/P Trade	2110	50,000
CIT	1110	150,000	3	Notes Payable New	2130	1,642,900
Total Cash & Contracts		1,420,192	4	Current Portion of LTD	2150	92,000
			5			
<u>Receivables</u>			6	Total Current Liabilities		1,784,900
A/R Parts Service BS	1210	21,500	7			
A/R Incentives	1220	16,500	8	<u>Long Term Debt (LTD)</u>		
Net Receivables		38,000	9	Notes Payable	2710	400,459
			10			
<u>Inventories</u>			11	Total Liabilities		2,185,359
New Vehicle	1310	1,648,600	12			
Pre-Owned Vehicles	1320	400,000	13	<u>Net Worth</u>		
Total Inventories		2,048,600	14			
			15	Paid In Capital	3300	1,000,000
Total Current Assets		3,506,792	16	Retained Earnings	3900	262,500
			17			
<u>Fixed Assets</u>			18	<u>Current Earnings</u>		
Computer Equipment	1510	17,500	19	January		45,733
			20			
			21	Total Net Worth		1,308,233
			22			
Total Assets		3,524,292	23	Total Liab & Net Worth		3,493,592

2020 OEM FINANCIAL STATEMENT
 Month/Year Jan-20 Through Jan-20
 INCOME STATEMENT

Page 2

	Month: January				YTD: January
	<u>Acct #</u>	<u>Amount</u>		<u>Acct #</u>	<u>Amount</u>
Sales		1,033,500	1 2		
Gross Profit		76,400	3 4		
<u>Variable Expenses</u>			5		
Sales Compensation	6010	15,000	6 7		
<u>Semi-Variable Expenses</u>			8		
Floorplan Interest	6210	1,000	9		
Advertising	6220	9,000	10 11 12		
<u>Fixed Expenses</u>			13		
Rent	7020	6,000	14		
Other Interest	7030	1,667	15 16		
Total Expenses		32,667	17 18		
Operating Profit		43,733	19 20		
Other Adds / Deducts		2,000	21 22		
Net Profit		45,733	23		

2020 OEM FINANCIAL STATEMENT
 Month/Year Jan-20 Through Jan-20
 BALANCE SHEET
 ANSWER KEY

Page 1

<u>Assets</u>	<u>Acct #</u>	<u>Amount</u>		<u>Liabilities</u>	<u>Acct #</u>	<u>Amount</u>
Cash	1010	1,288,192	2	A/P Trade	2110	50,000
CIT	1110	150,000	3	Notes Payable New	2130	1,642,900
Total Cash & Contracts		1,438,192	4	Current Portion of LTD	2150	92,000
			5			
Receivables			6	Total Current Liabilities		1,784,900
A/R Parts Service BS	1210	21,500	7			
A/R Incentives	1220	16,500	8	<u>Long Term Debt (LTD)</u>		
Net Receivables		38,000	9	Notes Payable	2710	400,459
			10			
Inventories			11	Total Liabilities		2,185,359
New Vehicle	1310	1,617,900	12			
Pre-Owned Vehicles	1320	400,000	13	Net Worth		
Total Inventories		2,017,900	14			
			15	Paid In Capital	3300	1,000,000
Total Current Assets		3,494,092	16	Retained Earnings	3900	262,500
			17			
Fixed Assets			18	Current Earnings		
Computer Equipment	1510	17,500	19	January		63,733
			20			
			21	Total Net Worth		1,326,233
			22			
Total Assets		3,511,592	23	Total Liab & Net Worth		3,511,592

2020 OEM FINANCIAL STATEMENT
 Month/Year Jan-20 Through Jan-20
 INCOME STATEMENT
 ANSWER KEY

Page 2

	Month: January			YTD: January	
	<u>Acct #</u>	<u>Amount</u>		<u>Acct #</u>	<u>Amount</u>
Sales		1,033,500	2		
Gross Profit		76,400	3		
			4		
<u>Variable Expenses</u>			5		
Sales Compensation	6010	15,000	6		
			7		
<u>Semi-Variable Expenses</u>			8		
Floorplan Interest	6210	1,000	9		
Advertising	6220	9,000	10		
			11		
			12		
<u>Fixed Expenses</u>			13		
Rent	7020	6,000	14		
Other Interest	7030	1,667	15		
			16		
Total Expenses		32,667	17		
			18		
Operating Profit		43,733	19		
			20		
Other Adds / Deducts		20,000	21		
			22		
Net Profit		63,733	23		