The Language of Business

Accounting: three little financial statements (and how they connect)

Agenda

SCM Education – Week 2

The purpose of accounting

Balance sheet

Income statement

Cash flow statement

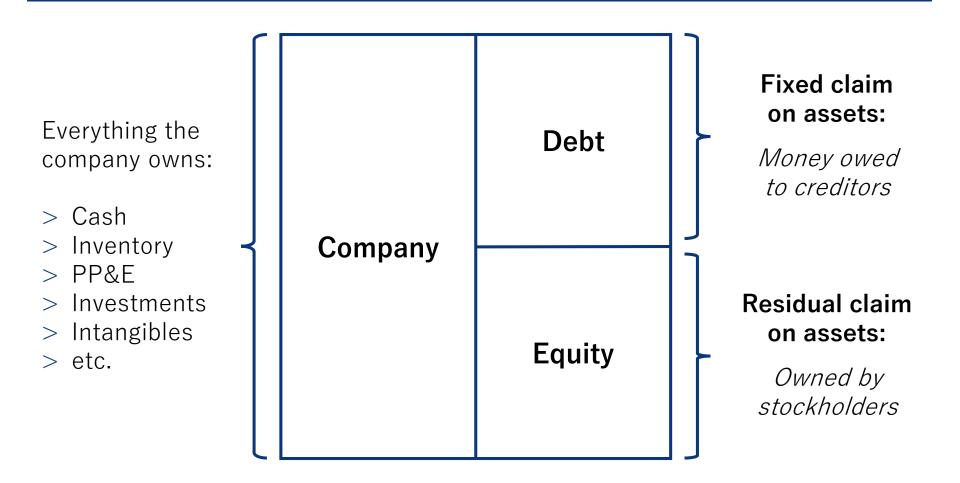
Flowing through the three statements

What is the purpose of a company?

Two ways a company Equity Debt can raise capital Company Company uses cash Stocks issued in Borrow money in exchange for cash to invest in business form of bonds Reinvested in business and **Profits** excess cash is returned to debt and equity holders

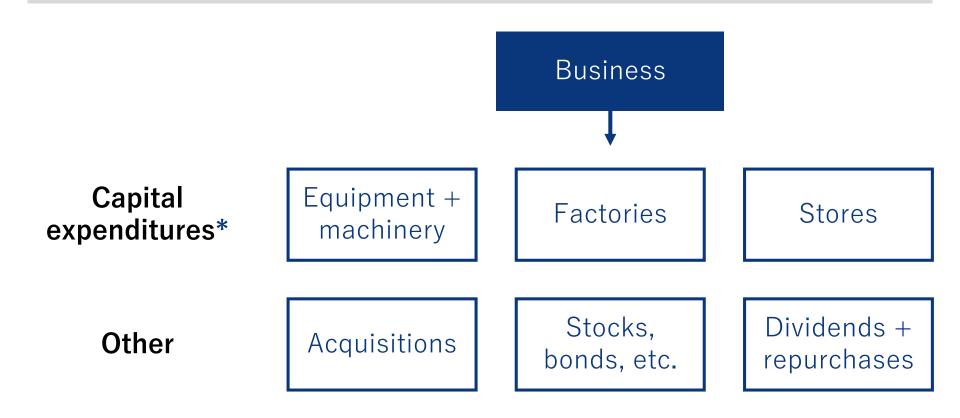
How is a company financed?

Companies need capital to buy assets that help them make money



What does a company do with capital?

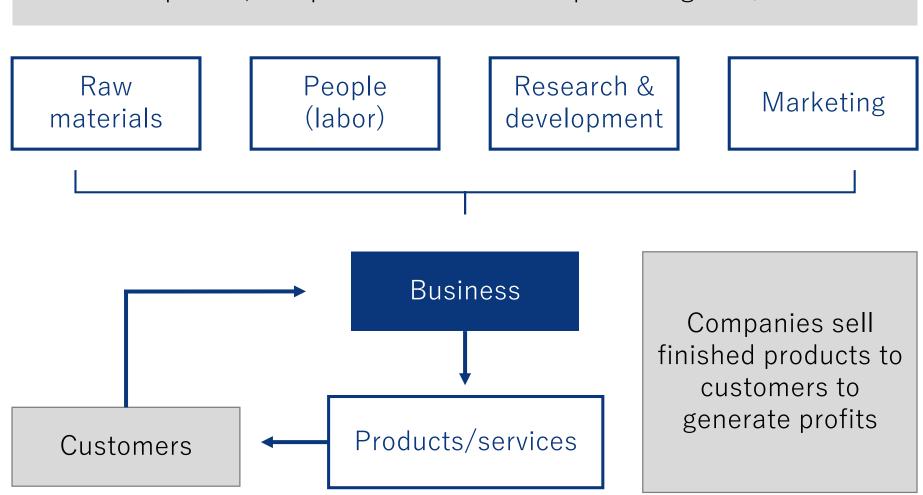
Companies invest in assets to generate returns in the future



^{*}Capital expenditures are investments in fixed assets used in operations.

How does a company make money?

To earn profits, companies incur costs to produce goods/services



Purpose of accounting

- The purpose of accounting is to provide a standardized way of quantitatively analyzing a company
- When analyzing the financials of a business, there are three main things we must understand:

Financing

- -How did the business raise capital?
- -How much is owed to creditors and how much is owned by stockholders?



Investing

- -What did the company do with the capital it raised?
- -What assets does the company own?



Operations

- -How is the company making money?
- -How successful is the company at using the assets it purchased to generate profits?

Three little financial statements



Purpose of accounting

Balance Sheet:

> Provides snapshot of company's financial position at a single point in time (how much they have and owe)

Income Statement:

Shows results of a company's operations over a certain time frame (how much a company earns in profits)

Cash Flow Statement:

Describes the cash flows into and out of the company over a period of time

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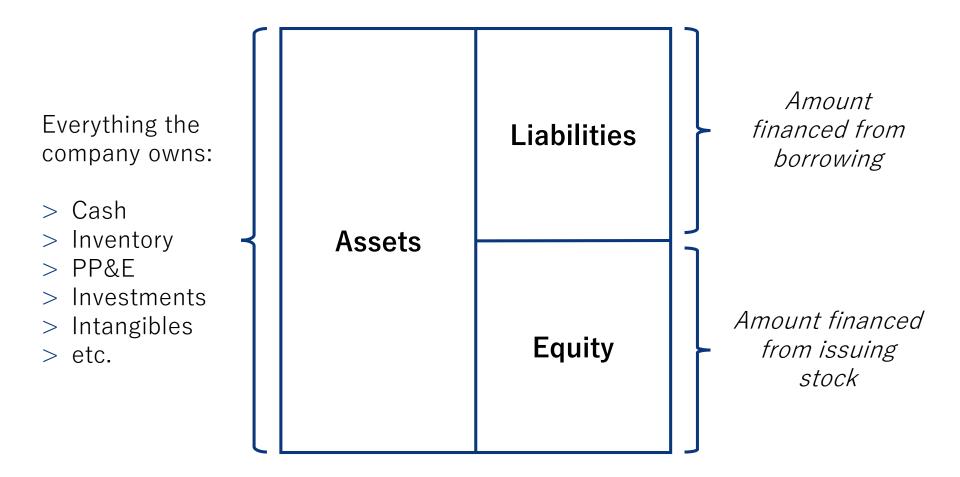
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- -What did the company do with the capital it raised?
- -What assets does the company own?

Operations

- -How is the company making money?
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Balance sheet provides snapshot of how a company is capitalized

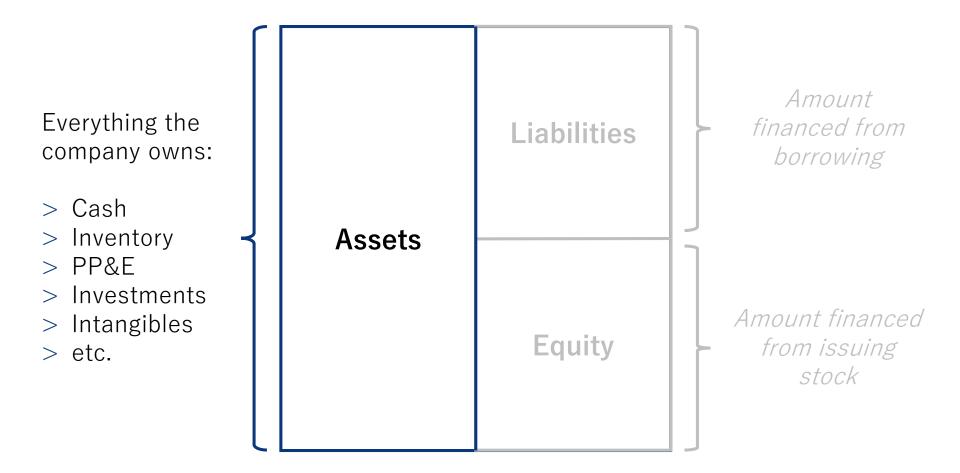


The accounting equation

Assets = Liabilities + Equity

Balance sheet assets

Asset side on balance sheet shows everything the company owns



Accounting assets ≠ economic assets

Not all economic assets (i.e. assets that provide economic benefit) are recognized on the balance sheet as accounting assets

Accounting Assets

An economic asset is recognized on the balance sheet if it is:

- 1. An asset owned by the company
- 2. Purchased by the company via an acquisition
- 3. Expected to provide economic benefits to the company

Not Accounting Assets

Some intangible assets that provide economic benefit are not recognized as accounting assets:

E.g. brands, trademarks, patents, customer relationships, etc.

An intangible asset is only recognized as an accounting asset if it is acquired from purchasing another company

Balance sheet assets

Current assets are turned into cash within 12 months while non-current assets are not expected to be turned into cash within 12 months

Current Assets

- Cash & cash equivalents: money in the bank and highly liquid securities like treasury bills or money markets
- > Short-term marketable securities: stocks, bonds, derivatives, etc.
- Accounts receivable: money due from customers, but not yet collected
- > <u>Inventories</u>: raw materials, work-inprogress goods, and finished goods
- Prepaid expenses: payments made for a product/service not yet received

Non-Current Assets

- > <u>PP&E</u>: property, plant, & equipment, often referred to as fixed assets (i.e. buildings, land, machinery, etc.)
- Secondary Sec
- > <u>Intangible assets</u>: non-physical assets acquired from another company (i.e. patents, trademarks, customer relationships)
- > **Equity method investees**: ownership of 20-50% of another company

Balance sheet assets: structure

COSTCO WHOLESALE CORPORATION CONSOLIDATED BALANCE SHEETS

(amounts in millions, except par value and share data)

		August 29, 2021	August 30, 2020
AS	SETS		
CURRENT ASSETS			
Cash and cash equivalents	Cash: most liquid asset	11,258	\$ 12,277
Short-term investments		917	1,028
Receivables, net		1,803	1,550
Merchandise inventories		14,215	12,242
Other current assets		1,312	1,023
Total current assets		29,505	28,120
OTHER ASSETS			
Property and equipment, net		23,492	21,807
Operating lease right-of-use assets		2,890	2,788
Other long-term assets	PP&E + other LT assets	3,381	2,841
TOTAL ASSETS		59,268	\$ 55,556

*Balance sheet assets are organized with most liquid assets on top and least liquid assets on the bottom

Balance sheet assets: real life example

COSTCO WHOLESALE CORPORATION CONSOLIDATED BALANCE SHEETS

(amounts in millions, except par value and share data)

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Increase in PP&E means Costco invested in additional fixed assets

Balance sheet assets: real life example

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TOTAL ASSETS	\$	59,268	\$	55,556

What are "other current/long-term assets?"

Balance sheet assets: real life example

Check the footnotes! Helpful to use "ctrl+f" on the annual report...

Goodwill and Acquired Intangible Assets

Goodwill represents the excess of acquisition cost over the fair value of the net assets acquired and is not subject to amortization. The Company reviews goodwill annually in the fourth quarter for impairment or when circumstances indicate carrying value may exceed the fair value. This evaluation is performed at the reporting unit level. If a qualitative assessment indicates that it is more likely than not that the fair value is less than carrying value, a quantitative analysis is completed using either the income or market approach, or a combination of both. The income approach estimates fair value based on expected discounted future cash flows, while the market approach uses comparable public companies and transactions to develop metrics to be applied to historical and expected future operating results.

Goodwill is included in other long-term assets in the consolidated balance sheets. The following table summarizes goodwill by reportable segment:

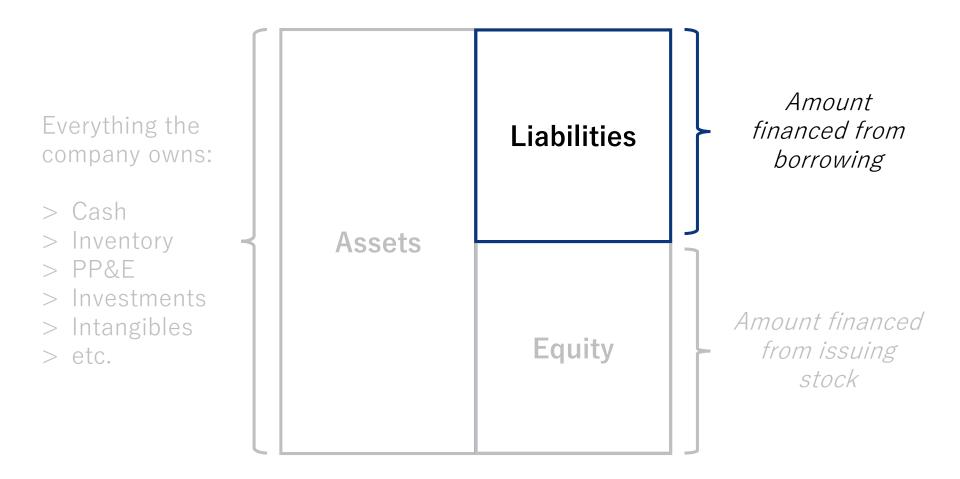
Definite-lived intangible assets, which are not material, are included in other long-term assets on the consolidated balance sheets and are amortized on a straight-line basis over their estimated lives, which approximates the pattern of expected economic benefit.

The deferred tax accounts at the end of 2021 and 2020 include deferred income tax assets of \$444 and \$406, respectively, included in other long-term liabilities.

*Turns out, Costco lumps goodwill, intangible assets, and deferred tax assets into "other long-term assets"

*Source: pages 45, 46, and 58 of Costco's FY 2021 10-K

Liabilities are fixed claims on the company's assets and obligations to other parties that the company is expected to pay in the future



Balance sheet liabilities

Current liabilities are due within the next 12 months while non-current liabilities are not due after the next 12 months

Current Liabilities

- Accounts payable: amount the company owes to its suppliers (similar to credit debt)
- Accrued expenses: goods/services that have been received, but haven't been paid for yet
- Deferred revenue: cash received for goods/services that the company has not yet delivered (unearned)
- > <u>Current portion of LT debt</u>: portion of long-term debt that is due within the next 12 months

Non-Current Liabilities

- > <u>Deferred income taxes</u>: amount owed to federal, local, and state tax authorities at a future date (1Y+)
- Long-term debt: money received by the company as a loan from bondholders who eventually need to be paid back (with interest)
- Unfunded benefit obligations: net difference between the accumulated benefit obligation owed to retirees of the company and the current market value of the pension fund

Balance sheet liabilities: structure

		August 29, 2021	August 30, 2020
CURRENT LIABILITIES			
Accounts payable	Accounte payables \$	16,278	\$ 14,172
Accrued salaries and benefits	Accounts payable:	4,090	3,605
Accrued member rewards	due the earliest	1,671	1,393
Deferred membership fees	duc the carnest	2,042	1,851
Current portion of long-term debt		799	95
Other current liabilities		4,561	3,728
Total current liabilities		29,441	24,844
OTHER LIABILITIES			
Long-term debt, excluding current portion	Lease liabilities + LT	6,692	7,514
Long-term operating lease liabilities		2,642	2,558
Other long-term liabilities	debt: due the latest	2,415	1,935
TOTAL LIABILITIES	debt. dde the latest	41,190	36,851

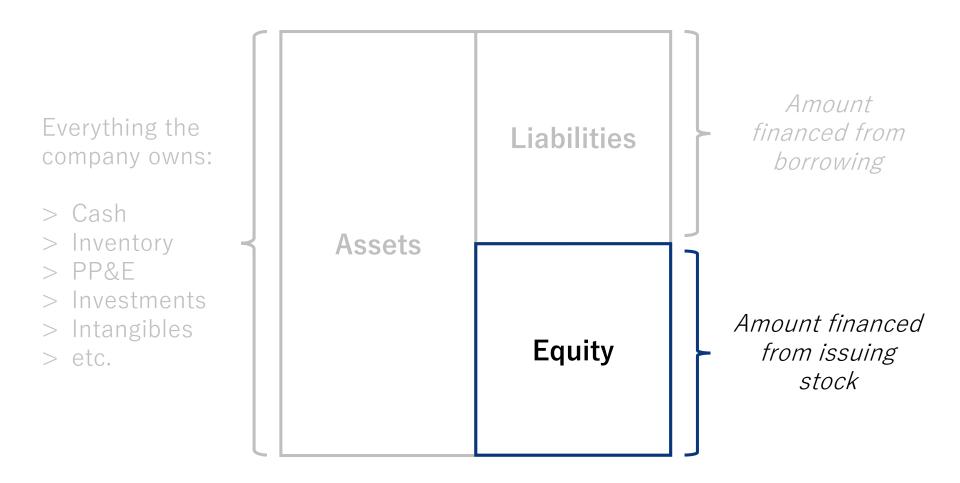
*Balance sheet liabilities are organized with liabilities due the earliest at the top and liabilities due the latest at bottom

Balance sheet liabilities: example

	August 29, 2021	August 30, 2020	
CURRENT LIABILITIES			
Accounts payable	\$ 16,27	78 \$ 14,172	
Accrued salaries and benefits	4,09	3,605	
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Long-term debt, excluding current portion	6,69	7,514	
Long-term operating lease liabilities	2,64	12 2,558	
Other long-term liabilities	2,43	1,935	
TOTAL LIABILITIES	41,19	36,851	

*Increase in current portion of LT debt means some LT debt is maturing soon

Equity section of the balance sheet shows what portion of assets are left over for stockholder's net of all liabilities



Balance sheet equity

- > <u>Preferred stock</u>: special type of stock that offers a fixed dividend; has priority over common stock—check footnotes for specifics!
- > <u>Common stock + additional paid-in capital</u>: show how much money the company has raised by selling shares of stock to outside investors
- > Retained earnings: the sum of the company's cumulative accounting profits (net income) less dividends paid to shareholders; these are the total accounting profits that the company has either reinvested or is holding onto
- > <u>Treasury stock</u>: previously outstanding shares that the company has repurchased from stockholders (recorded as a negative account)
- > **Equity method investees (balance sheet asset)**: when a company holds 20-50% of the stock of another company (an equity investment)
- > Non-controlling interest: also known as *minority interest*, is when a company owns greater than 50%, but less than 100% of one of its subsidiaries, and therefore, does not have full ownership of all the subsidiary's earnings

Balance sheet equity: example

	August 29, 2021	August 30, 2020	
EQUITY			
Preferred stock \$0.01 par value; 100,000,000 shares authorized; no shares issued and outstanding	_	_	
Common stock \$0.01 par value; 900,000,000 shares authorized; 441,825,000 and 441,255,000 shares issued and outstanding	4	4	
Additional paid-in capital	7,031	6,698	
Accumulated other comprehensive loss	(1,137)	(1,297)	
Retained earnings	11,666	12,879	
Total Costco stockholders' equity	17,564	18,284	
Noncontrolling interests	514	421	
TOTAL EQUITY	18,078	18,705	
TOTAL LIABILITIES AND EQUITY	\$ 59,268	\$ 55,556	

*Decrease in retained earnings means Costco either had negative net income or paid out dividends exceeding total net income

The accounting equation

Assets = Liabilities + Equity

Equity = Assets - Liabilities

Balance sheet equity: example

_	August 29, 2021	August 30, 2020	
EQUITY			
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TOTAL LIABILITIES AND EQUITY	\$ 59,268	\$ 55,556	

Total equity (also called "book value") must give us a pretty good understanding of what the company is worth... Right?

Book value vs. market value

What is the value of a company? What does it mean when someone says a company is worth a certain amount of money?

Book Value

- Accounting assets net of all accounting liabilities
- > This is the number that makes the balance sheet balance
- Remember: not all "economic assets" appear on the balance sheet as "accounting assets"
- Oftentimes, assets are recorded on the balance sheet at their historical cost, which may not reflect economic/market value

Market Value

- Share price multiplied by the total number of shares outstanding
- Often referred to as the market value of equity
- > This is the price you could theoretically purchase 100% of the company excluding cash/debt
- Most companies trade above BV because they are willing to pay more for expectations of future profitable growth in value

Income statement

Income Statement:

Shows results of a company's operations over a certain time frame (how much a company earns in profits)

Financing

- -How did the business raise capital?
- -How much is owed to creditors and how much is owned by stockholders?



Investing

- -What did the company do with the capital it raised?
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Operations

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Income statement

Income statement tells us how much a company is earning or losing

$$Revene - expenses - taxes = net profit/(loss)$$

Revenue		
(-) Cost of goods sold		
(=) Gross profit		Operating
(-) Selling, general, & administrative (SG&A)		expenses
(-) Research & development (R&D)		
(=) Operating income (EBIT)	7	Non-Operating
(-) Interest expense		expenses
(=) Earnings before taxes (EBT)		Taxes
(-) Income tax expense		Taxes
(=) Net income		

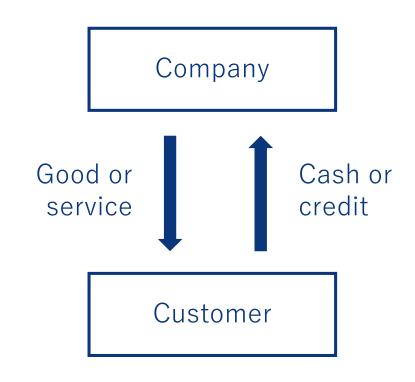
What is revenue?

Total amount of sales made over a period of time (typically 1Y or 1Q)

Revenue = average price * quantity

The income statement is prepared on an accrual basis

- This means revenue and expenses are recognized regardless of whether cash transactions have occurred
- > There are two ways revenue can be paid/recognized: **cash** and **credit**
- When a company sells a good or service paid in credit, they record that credit as an accounts receivable asset
- When a company receives cash for a good or service that isn't delivered yet, it is recorded as a <u>deferred revenue</u> liability



What is COGS?

All direct costs of producing the goods/services sold

Types of COGS (cost of goods sold):

- > Raw materials
- > Direct labor
- > Factory overhead

- > Storage costs
- > Transportation costs
- > Purchase returns + discounts

How is COGS recognized?

- When a company purchases raw materials from suppliers and turns it into a finished good or service, the company records it as an <u>inventory</u> asset on the balance sheet
- > When the company sells the finished good or service, it is removed from the balance sheet and **expensed** as a **cost of goods sold**

What is SG&A?

Operating expenses not directly related to production of goods/services

Types of SG&A (selling, general, & administrative) expenses:

- > Salaries of staff and executives not involved in production
- > Marketing, advertising, and promotional expenses
- > Rent, utilities, insurance payments, accounting costs, etc.

Some companies split up SG&A expenses into separate categories:

ITEM 8. FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA			
INCOME STATEMENTS			
(In millions, except per share amounts)			
Year Ended June 30,	2021	2020	2019
Sales and marketing General and administrative	20,117 5,107	19,598 5,111	18,213 4,885

^{*}Source: Microsoft's FY 2021 10-K

Operating vs. non-operating expenses

Operating expenses are costs the company incurs that are required for running the primary business/operations

Operating Expenses

- > Typically, most expenses are operating expenses...
- If an expense is related to normal business operations, then it is an operating expense
- Unless you have a good reason for why it is a non-operating expense, it's probably an operating expense
- > E.g. COGS, SG&A, R&D, etc.

Non-Operating expenses

- A non-operating expense is a cost that is not related to normal business operations
- E.g. interest expense (for non-banks), unrealized gains/losses on marketable securities, losses from discontinued operations, etc.
- Expenses that occur outside a company's day-to-day activities are typically on-operating expenses

^{*}Sometimes, it can be a bit more ambiguous whether an expense is operating or nonoperating; E.g. company ABC incurs a one-off \$1M restructuring charge in 2020

Sometimes one-off charges are recurring

General Motors (and most auto companies) consistently incur restructuring/legal costs and they leave them out of "adjusted" EBIT

	Years Ended			d
	De	cember 31, 2017	D	ecember 31, 2016
Operating segments				
GM North America (GMNA)	\$	11,889	\$	12,388
GM International (GMI)(a)		1,300		767
General Motors Financial Company, Inc. (GM Financial)(b)		1,196		763
Total operating segments		14,385		13,918
Corporate and eliminations(c)		(1,541)		(1,070)
EBIT-adjusted		12,844		12,848
Special items				
GMI restructuring(d)		(460)		_
Venezuela-related matters(e)		(80)		_
Ignition switch recall and related legal matters(f)		(114)		(300)
Total special items		(654)		(300)

^{*}Source: General Motors' FY 2017 earnings release

Income statement example

COSTCO WHOLESALE CORPORATION CONSOLIDATED STATEMENTS OF INCOME

= operating expenses

(amounts in millions, except per share data)

= non-operating expenses	52	Weeks Ended August 29, 2021	Ę	52 Weeks Ended August 30, 2020	52 Weeks Ended September 1, 2019
REVENUE					
Net sales	\$	192,052	\$	163,220	\$ 149,351
Membership fees		3,877		3,541	3,352
Total revenue	•	195,929		166,761	152,703
OPERATING EXPENSES					
Merchandise costs		170,684		144,939	132,886
Selling, general and administrative		18,461		16,332	14,994
Preopening expenses		76		55	86
Operating income		6,708		5,435	4,737
OTHER INCOME (EXPENSE)					
Interest expense		(171)		(160)	(150)
Interest income and other, net		143		92	178
INCOME BEFORE INCOME TAXES		6,680		5,367	4,765
Provision for income taxes		1,601		1,308	1,061
Net income including noncontrolling interests		5,079		4,059	3,704
Net income attributable to noncontrolling interests		(72)		(57)	(45)
NET INCOME ATTRIBUTABLE TO COSTCO	\$	5,007	\$	4,002	\$ 3,659
NET INCOME PER COMMON SHARE ATTRIBUTABLE TO COSTCO:					
Basic	\$	11.30	\$	9.05	\$ 8.32
Diluted	\$	11.27	\$	9.02	\$ 8.26
Shares used in calculation (000's)					
Basic		443,089		442,297	439,755
Diluted		444,346		443,901	442,923

Cash flow statement

Cash Flow Statement:

Describes the cash flows into and out of the company over a period of time

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- -How much is owed to creditors and how much is owned by stockholders?



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Cash flow statement

Cash flow from operations (CFFO):

> How much cash did the company's operations generate before reinvestment + returning cash to shareholders?

Cash flow from investing (CFFI):

How much cash did the company spend/receive from buying/selling assets (PP&E, investments, etc.)?

Cash flow from financing (CFFF):

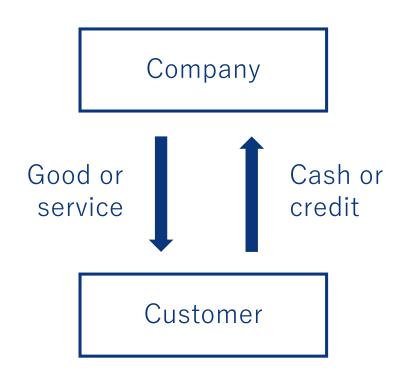
How much cash did was raised through debt/equity or paid out to shareholders via buybacks + dividends?

Cash flow from operations

How much cash did the company's operations generate before reinvestment + returning cash to shareholders?

Profits on the income statement are not always in the form of cash

- If we want to know how much cash a business generated, we must make adjustments to the earnings on the income statement
- > CFFO = Net Income + Cash Adjustments
- Some cash adjustments include: add back depreciation & amortization and stock-based compensation, subtract changes in accounts receivable and changes in inventories, etc.



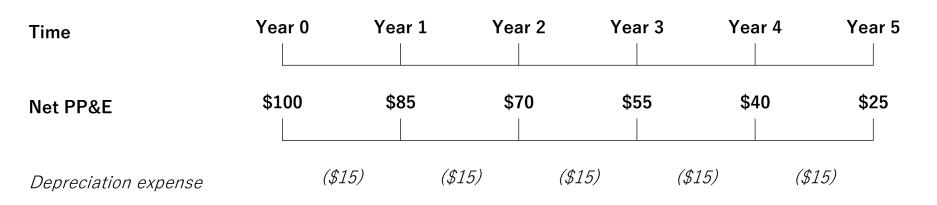
Depreciation (straight-line method)

A company's fixed assets (PP&E e.g. factory, equipment, etc.) decline in value over time if money is not spent on repairs due to wear and tear, so the value of those fixed assets are depreciated over their useful life and expensed on the income statement (usually lumped into COGS)

Factory purchased for \$100 has a useful life of 5 years with salvage value of \$25

Annual depreciation expense:

(Purchase Price — Salvage Value) Useful Life



Amortization

Amortization is calculated in a similar way to depreciation, but is used for intangible assets (customer relationships, patents, trademarks, etc.)

Typically, amortization of intangibles isn't an economic cost:

- > When you own a factory, you have to outlay cash to maintain/repair it, so there is a required cash expense: maintenance capex
- > If you acquire another company that owns a trademark with a finite useful life, you don't necessarily need to outlay cash to maintain that trademark... but you expense it on the income statement

Sometimes, companies do not report amortization separately:

- Companies are not required to report amortization separately and most companies lump them together on the cash flow statement
- > To find the amortization expense, use "ctrl+f" and search amortization; it's usually on a separate table or footnote

Amortization

Meta/Facebook lumps depreciation and amortization together on the cash flow statement but has a footnote that separates out amortization

		 December 31, 2018					 December 31, 2017				
	Weighted- Average Remaining Useful Lives (in years)	Gross Carrying Amount		ccumulated mortization		Carrying Amount	 Gross Carrying Amount		ccumulated mortization		Carrying Amount
Acquired users	2.8	\$ 2,056	\$	(1,260)	\$	796	\$ 2,056	\$	(971)	\$	1,085
Acquired technology	1.2	1,002		(871)		131	972		(711)		261
Acquired patents	5.2	805		(565)		240	785		(499)		286
Trade names	1.4	629		(517)		112	629		(406)		223
Other	2.4	 162		(147)		15	 162		(133)		29
Total intangible assets	2.9	\$ 4,654	\$	(3,360)	\$	1,294	\$ 4,604	\$	(2,720)	\$	1,884

Amortization expense of intangible assets for the years ended December 31, 2018, 2017, and 2016 was \$640 million, \$692 million, and \$751 million, respectively.

*Source: Pg. 76 of Meta's (NASDAQ: FB) 2021 10-K

Cash flow statement (CFFO example)

COSTCO WHOLESALE CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (amounts in millions)

	52 Weeks Ended August 29, 2021		august 29, August 30,		August 30,			eeks Ended stember 1, 2019
CASH FLOWS FROM OPERATING ACTIVITIES	Ф	E 070	¢.	4.050	Ф	2.704		
Net income including noncontrolling interests Adjustments to reconcile net income including noncontrolling interests to net cash provided by operating activities:	\$	5,079	\$	4,059	\$	3,704		
Depreciation and amortization		1,781		1,645		1,492		
Non-cash lease expense		286		194		_		
Stock-based compensation		665		619		595		
Other non-cash operating activities, net		85		42		9		
Deferred income taxes		59		104		147		
Changes in operating assets and liabilities:								
Merchandise inventories		(1,892)		(791)		(536)		
Accounts payable		1,838		2,261		322		
Other operating assets and liabilities, net		1,057		728		623		
Net cash provided by operating activities		8,958		8,861		6,356		

^{*}Costco does not report depreciation and amortization separately

^{*}The company **increased inventories** in 2021, which had an **adverse effect** on cash flow from operations

Cash flow from investing

How much cash did the company spend/receive from buying/selling fixed assets (PP&E), investments, acquiring companies, etc.?

CFFI shows how much the company is spending on asset purchases:

- > A particularly important line item on CFFI is **capital expenditures** or **capex** (often recorded as purchase/addition of PP&E)
- Capital expenditures shows us how much the company is spending on organic reinvestment in the business operations
- > There's an important term called **free cash flow** which tells us the amount of cash generated each year from operations less all reinvestment requirements
- > To calculate free cash flow, we can subtract **capex** from **CFFO**:

 $Operating\ Cash\ Flows - Capex = Free\ Cash\ Flow$

Cash flow statement (CFFI example)

COSTCO WHOLESALE CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (amounts in millions)

	52 Weeks Ended August 29, 2021				Weeks Ended September 1, 2019
CASH FLOWS FROM OPERATING ACTIVITIES					
Net income including noncontrolling interests	\$	5,079	\$ 4,059	\$	3,704
Adjustments to reconcile net income including noncontrolling interests to net cash provided by operating activities:					
Depreciation and amortization		1,781	1,645		1,492
Non-cash lease expense		286	194		_
Stock-based compensation		665	619		595
Other non-cash operating activities, net		85	42		9
Deferred income taxes		59	104		147
Changes in operating assets and liabilities:					
Merchandise inventories		(1,892)	(791)		(536)
Accounts payable		1,838	2,261		322
Other operating assets and liabilities, net		1,057	728		623
Net cash provided by operating activities		8,958	8,861		6,356
CASH FLOWS FROM INVESTING ACTIVITIES					
Purchases of short-term investments		(1,331)	(1,626)		(1,094)
Maturities and sales of short-term investments		1,446	1,678		1,231
Additions to property and equipment		(3,588)	(2,810)		(2,998)
Acquisitions		_	(1,163)		_
Other investing activities, net		(62)	30		(4)
Net cash used in investing activities		(3,535)	(3,891)		(2,865)

$$CFFO - Capex = FCF$$

$$\sim \$9B - \sim \$3.6B = \$5.4B$$

*Costco generated ~\$3.6 billion in free cash flow in 2021

Cash flow statement (CFFF example)

How much cash did was raised through debt/equity or paid out to shareholders via buybacks + dividends?

COSTCO WHOLESALE CORPORATION CONSOLIDATED STATEMENTS OF CASH FLOWS (amounts in millions)

	52 Weeks Ended August 29, 2021	52 Weeks Ended August 30, 2020	52 Weeks Ended September 1, 2019
CASH FLOWS FROM FINANCING ACTIVITIES			
Change in bank payments outstanding	188	137	210
Proceeds from short-term borrowings	41	_	_
Proceeds from issuance of long-term debt	_	3,992	298
Repayments of long-term debt	(94)	(3,200)	(89)
Tax withholdings on stock-based awards	(312)	(330)	(272)
Repurchases of common stock	(496)	(196)	(247)
Cash dividend payments	(5,748)	(1,479)	(1,038)
Other financing activities, net	(67)	(71)	(9)
Net cash used in financing activities	(6,488)	(1,147)	(1,147)

^{*}Costco earned ~\$5B in net income in 2021, while dividends were ~\$5.7B

Balance sheet

	August 29, 2021	August 30, 2020
EQUITY		
Preferred stock \$0.01 par value; 100,000,000 shares authorized; no shares issued and outstanding	_	_
Common stock \$0.01 par value; 900,000,000 shares authorized; 441,825,000 and 441,255,000 shares issued and outstanding	4	4
Additional paid-in capital	7,031	6,698
Accumulated other comprehensive loss	(1,137)	(1,297)
Retained earnings	11,666	12,879
Total Costco stockholders' equity	17,564	18,284
Noncontrolling interests	514	421
TOTAL EQUITY	18,078	18,705
TOTAL LIABILITIES AND EQUITY	\$ 59,268	\$ 55,556

*We now know that Costco's decrease in retained earnings is because their dividends in 2021 exceeded net income

Net Income / Retained Earnings (NI – Dividends):

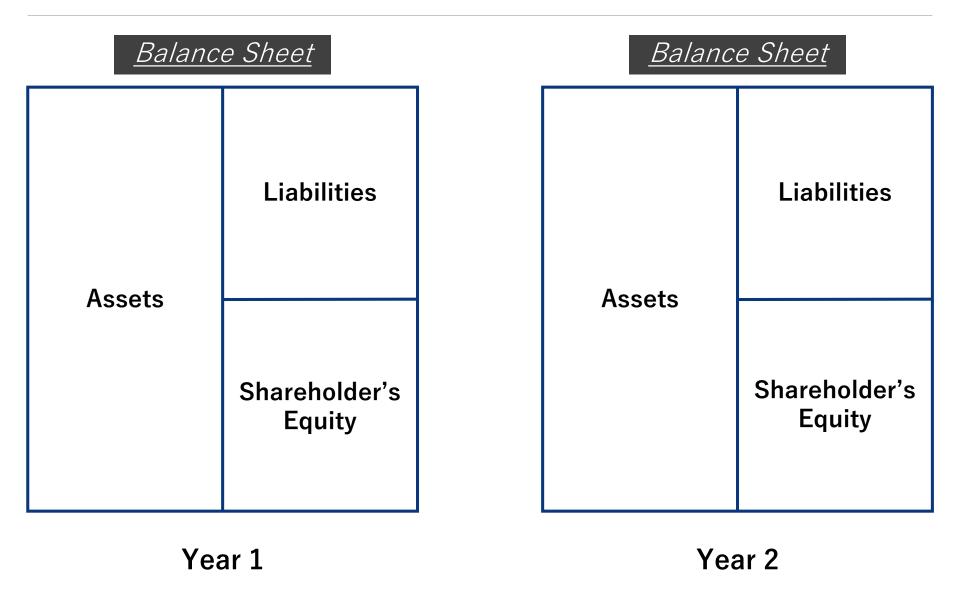
Net income feeds into retained earnings and is the starting point for cash flow from operations

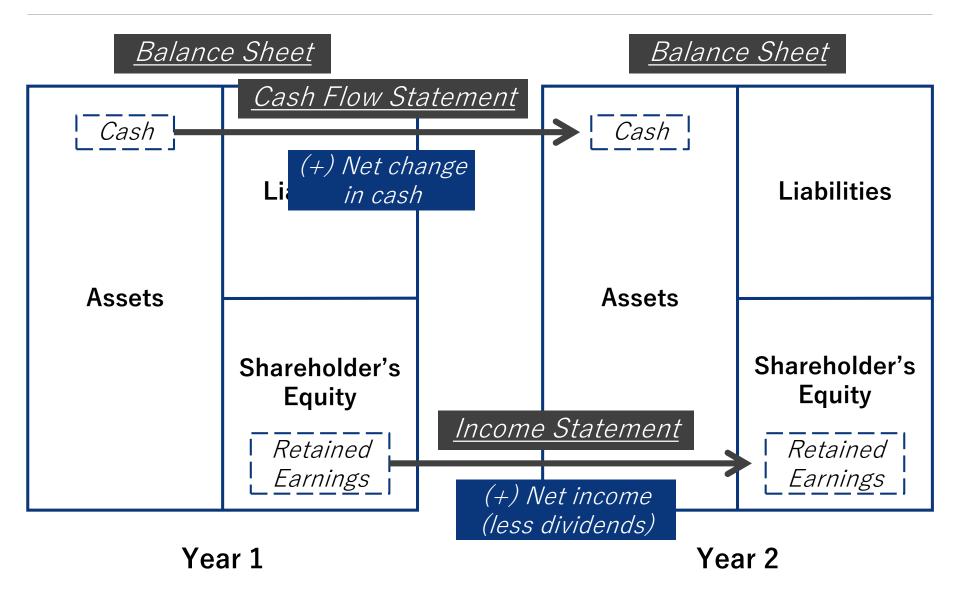
PP&E, Depreciation, and Capex

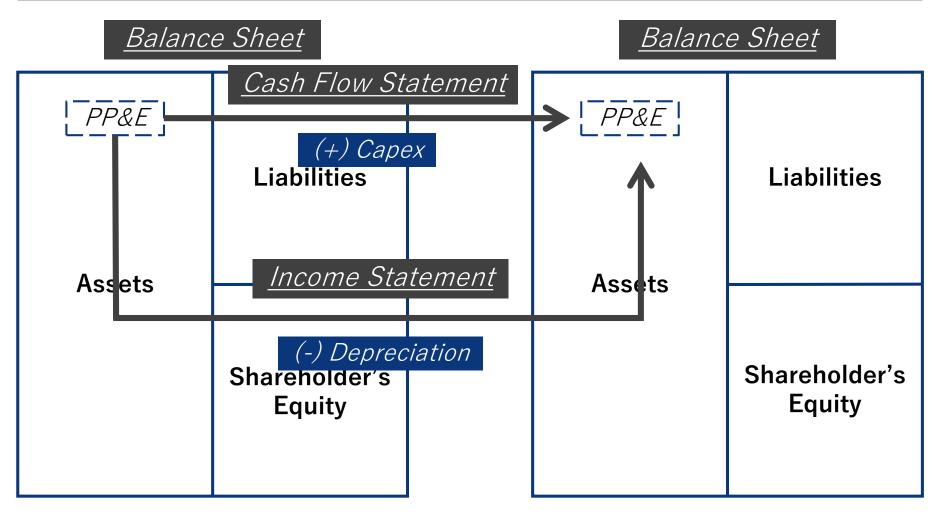
Depreciation is subtracted from PP&E and capital investments are added to the PP&E account on BS

Net Change in Cash

The total net change in cash is added to the BS cash from the prior period to get to cash in the next period







Year 1 Year 2

Example: What does the balance sheet look like in 2021?

Total liabilities and equity	200	?
		<u>-</u>
Shareholder's equity	190	?
Retained earnings	0	?
Equity capital	190	?
Equity		
Total habilitios		<u>·</u>
Total liabilities	10	?
Debt	10	?
Liabilities		
Total assets	200	<u> </u>
Total assets	200	?
PP&E	150	?
Cash	50	?
Assets		
Balance Sheet	2020	2021

CFFO (Operating) Net Income Depreciation CFFI (Investing)	60 10
Net Income	
CFFO (Operating)	
Cash Flow Statement	2021
Net Income	60
Tax expense	9
Interest expense	1
EBIT	70
Operating expenses	20
Depreciation	10
Revenue	100
Income Statement	2021

Example: What does the balance sheet look like in 2021?

Total liabilities and equity	200	250
	130	
Shareholder's equity	190	240
Retained earnings	0	50
Equity capital	190	190
Equity		
Total liabilities	10	10
Total liabilities	10	10
Debt	10	10
Liabilities		
Total assets	200	250
PP&E	150	190
Cash	50	60
Assets		
Balance Sheet	2020	2021
D 1 01 1	0000	0001

Income Statement	2021
Revenue	100
Depreciation	10
Operating expenses	20
EBIT	70
Interest expense	1
Tax expense	9
Net Income	60
Cash Flow Statement	2021
CFFO (Operating)	
Net Income	60
Depreciation	10
CFFI (Investing)	
Capex	-50
CFFF (Financing)	
Dividends paid	-10
Dividends para	-10
Net Change in Cash	10

You have to understand accounting and you have to understand the nuances of accounting. It's the language of business and it's an imperfect language, but unless you are willing to put in the effort to learn accounting – how to read and interpret financial statements – you really shouldn't select stocks yourself.

WARREN BUFFETT

Chairman of Berkshire Hathaway

Key terms

- COGS Cost of goods sold
- D&A Depreciation and amortization
- R&D Research and development
- SG&A Selling, general, and administrative costs
- OpEx Operating expenses
- EBIT Earnings before interest and taxes (operating income)
- **EBITDA** Earnings before interest, taxes, depreciation, and amortization ("bullshit earnings" Charlie Munger)
- NOPAT Net operating profit after tax
- CFFO Cash flow from operations
- FCF Free cash flow
- CapEx Capital expenditures