Session 2: How a business makes money Understanding a business How to read an annual report Extracting key metrics

How a business makes \$\$\$

- 1. Selling goods and services
- 2. Transaction fees (take a cut of every transaction)
- 3. Recurring revenue (SaaS, memberships, razor blade model)
- 4. Asset light vs Asset heavy

1. Selling goods and services

Coca cola

CLASSIC OCA GOA

Supermarket (whole foods)

Education and classes

Consulting and coaching



2. Transaction Fees

Paypal



Stock brokerages

App or android store charges on developers



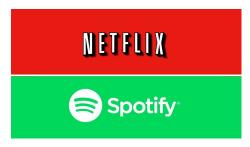
3. Recurring revenues/ subscriptions

By contract:

- Zoom video subscription
- Gym memberships
- Netflix/ spotify

By nature:

- Razor blades
- Printer and ink cartridges
- Elevator installation and maintenance





4. Asset light vs Asset heavy

Asset light:

- Ebay
- Taobao
- Airbnb
- Uber/ Grab





Asset heavy:

- Amazon shipping
- Tesla
- Manufacturing





Reading annual report (10K)

Why do we read an annual report for?

To understand the business and how it makes money

You cannot think and act like an OWNER if you don't know the business

Don't let the document length scare you. Know what to zoom in and what to ignore!

Duration: can usually be completed in 1 hour

AMAZON.COM, INC. FORM 10-K For the Fiscal Year Ended December 31, 2020

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Item 1.	Business
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 Signatures
 Signatures

PART IV

Reading annual report (10K)

Business section: Understand the business, what products it sells, how it makes \$\$\$, who are its customers

Risks: understand their potential risks and threats they face

Extract key metrics

Taken from the **quarterly earnings press release**

Pop Quiz: Why press release and NOT the 10-Q?

Extract the data for last 8 quarters at least. Why?

We'll share the template with you in the next session

Extract key metrics

Revenue

Gross profits

Operating profit or Adjusted EBITDA (for loss making business) Operating cash flow

Free cash flow

Diluted share count

Other key metrics and KPIs (eg. customers, daily active users) Cash and debt position

Quick DEMO + Week 2 Homework: Extract key metrics



Week 2 Homework: Extract key metrics Last 8 Quarters: 2020 Q1-Q4 ; 2021 Q1-Q4

Revenue Gross profit Non GAAP operating profit Net dollar retention for customers with >10 users Number of paid enterprise customers with more than \$50k ARR Diluted share count **Operating cash flow** Free cash flow Cash and debt position **M** monday.com

Week 2 Homework: Extract key metrics

Click here to access the spreadsheet

Monday.com Week 2 homework 🛛 🖈 🖻 📀 Ħ File Edit View Insert Format Data Tools Extensions Help Last edit was 2 minutes ago In つ 壱 マ 90% ▼ \$ % .0 .00 123▼ Default (Ari... ▼ 12 ▼ B I S ▲ ▲ ▲ ■ 田 田 ▼ ▲ ▼ トナ ▼ ▼ GP 田 田 マ ★ . • fx .14 A В C D E F G H I J 2020 1 2021 2 Q1 02 03 Q4 Q1 02 03 04 3 Revenue 4 5 Gross Profit 6 7 **Operating Profit (non GAAP)** 8 Net dollar retention for customers with >10 users 10 # of paid enterprise customers with 11 more than \$50k ARR 12 13 Diluted share count 14 15 Operating cash flow 16 17 Free cash flow 18 19 Cash and debt position 20 cash 21 ST investments 22 23 ST debt 24 IT debt 25

Session 2: How to understand a business, key metrics to watch, how companies make money

Trainers: Max Koh and Thomas Chua

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Who Offers The Best Prices?













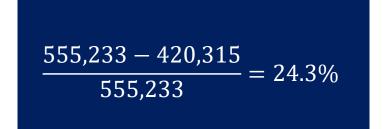
Costco

 $\frac{192,052 - 170,684}{192,052} = 11.1\%$

COSTCO WHOLESALE CORPORATION CONSOLIDATED STATEMENTS OF INCOME (amounts in millions, except per share data)

	52 Weeks E August 2 2021		 eeks Ended Igust 30, 2020	 eeks Ended tember 1, 2019
REVENUE				
Net sales	\$ 19	92,052	\$ 163,220	\$ 149,351
Membership fees		3,877	 3,541	 3,352
Total revenue	19	95,929	166,761	152,703
OPERATING EXPENSES				
Merchandise costs	17	0,684	144,939	132,886
Selling, general and administrative	1	8,461	16,332	14,994
Preopening expenses		76	 55	 86
Operating income		6,708	5,435	4,737

Walmart



Walmart Inc. Consolidated Statements of Income

	Fiscal Years Ended January 31,						
(Amounts in millions, except per share data)		2021		2020		2019	
Revenues:							
Net sales	\$	555,233	\$	519,926	\$	510,329	
Membership and other income		3,918		4,038		4,076	
Total revenues		559,151		523,964		514,405	
Costs and expenses:							
Cost of sales		420,315		394,605		385,301	
Operating, selling, general and administrative expenses		116,288		108,791		107,147	
Operating income		22,548		20,568		21,957	



$$\frac{104,611 - 74,963}{104,611} = 28.3\%$$

(millions, except per share data)	2021	2020	2019
Sales	\$ 104,611 \$	92,400 \$	77,130
Other revenue	1,394	1,161	982
Total revenue	106,005	93,561	78,112
Cost of sales	74,963	66,177	54,864
Selling, general and administrative expenses	19,752	18,615	16,233
Depreciation and amortization (exclusive of depreciation included in cost of sales)	2,344	2,230	2,357
Operating income	8,946	6,539	4,658

Which Company Made Most Money for its Shareholders?





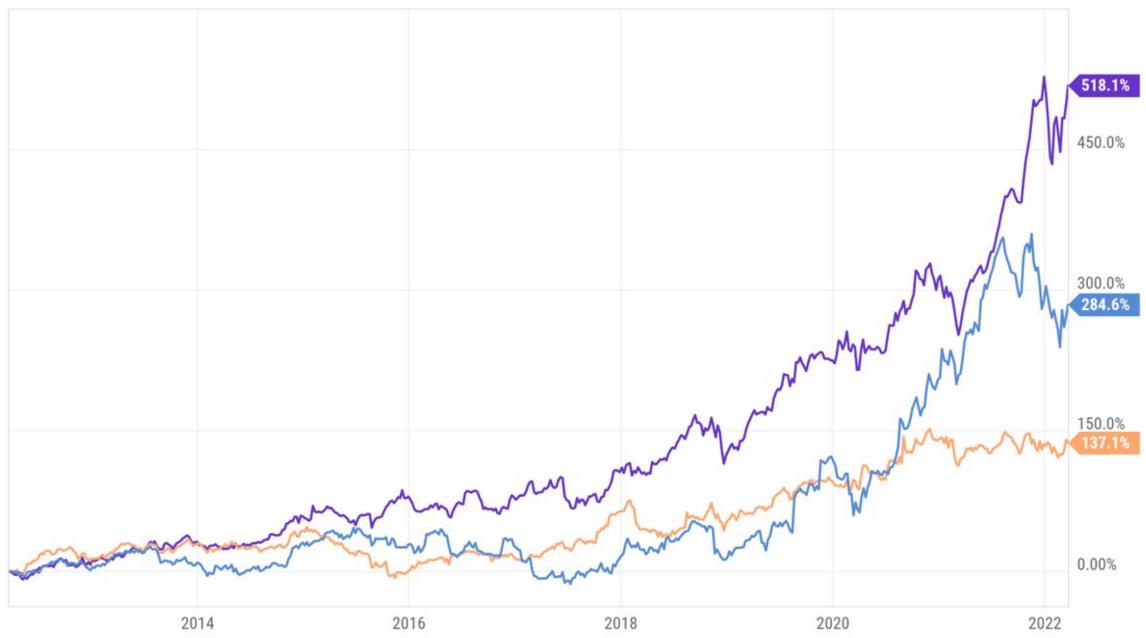


Gross Margins: 11.1%

Gross Margins: 24.3%

Gross Margins: 28.3%

- Costco Wholesale Corp Price % Change
- Walmart Inc Price % Change
- Target Corp Price % Change



Three Types of Financial Statements

Income Statement

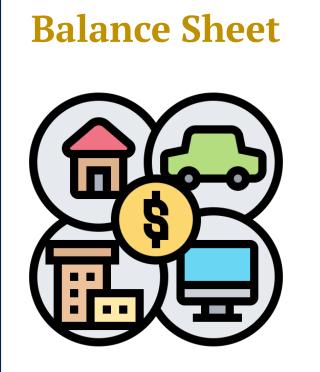
Cash Flow Statement



How much money made?



How much cash came in?

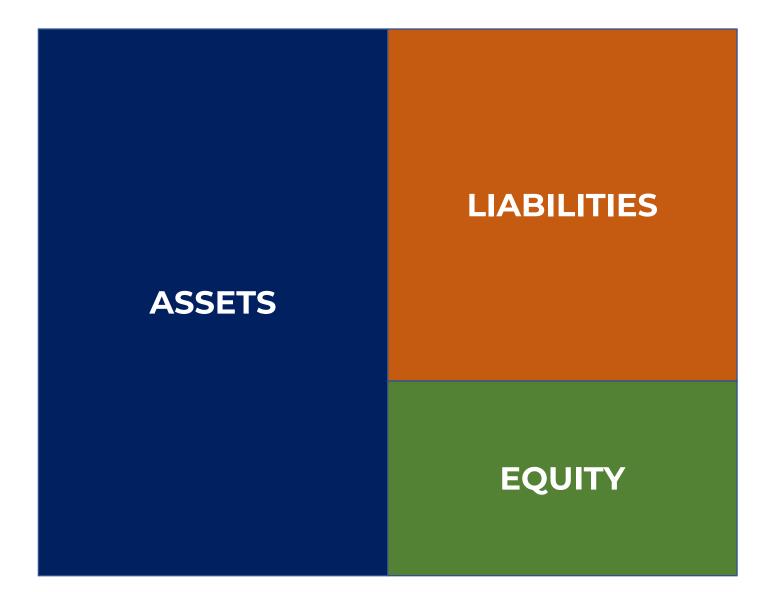


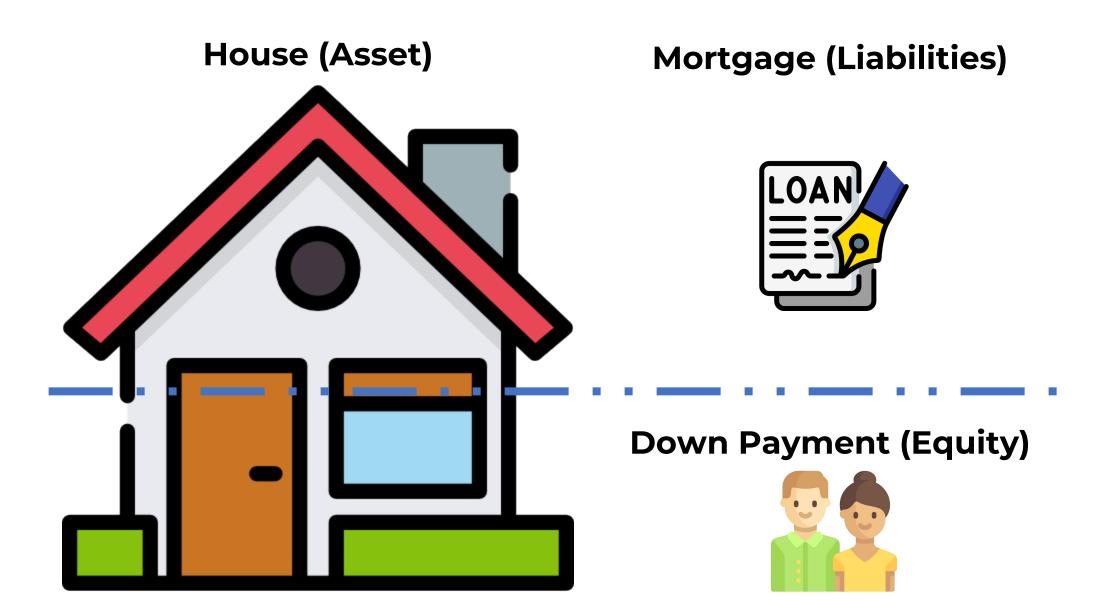
What do I own and owe?

Balance Sheet

- The balance sheet shows a company's total assets, liabilities and shareholders' equity at a <u>specific point in time</u>.
- It shows you what the company owns (assets), owes (liabilities) and the amount invested by shareholders (equity).

Question: Any guess why it is called the balance sheet?





Assets

- Assets are what the company owns.
- Classified into:
 - Current assets are assets that are expected to be converted into cash within *one year*.
 - E.g. Cash and inventories
 - Non-current assets are long-term assets that a company expects to hold for more than a year.

E.g. Plant property and equipment

Cash and cash equivalents

• Most liquid form of assets

META PLATFORMS, INC. CONSOLIDATED BALANCE SHEETS

(In millions, except for number of shares and par value)

	I	December 31,		
	2021		2020	
Assets				
Current assets:				
Cash and cash equivalents	\$ 16,1	501 \$	17,576	
Marketable securities	31,3	97	44,378	
Accounts receivable, net	14,0	39	11,335	
Prepaid expenses and other current assets	4,	29	2,381	
Total current assets	66,	66	75,670	
Equity investments	6,	75	6,234	
Property and equipment, net	57,	09	45,633	
Operating lease right-of-use assets	12,	55	9,348	
Intangible assets, net		34	623	
Goodwill	19,	97	19,050	
Other assets	2,7	51	2,758	
Total assets	\$ 165,9	87 \$	159,316	

Cash and cash equivalents

- Rising cash and cash equivalents (CCE) is generally good because it makes a company anti-fragile during difficult times.
- But excessive cash may suggest that management has no idea how to deploy the cash for growth and investments.
- This is an opportunity cost for investors. If management are unable to invest the excess cash they should return the capital to shareholders.

Accounts receivables

 A/R are what your customers owe you. Usually businesses extends credit terms that allows customer to pay the amount after a number of days.

META PLATFORMS, INC. CONSOLIDATED BALANCE SHEETS

(In millions, except for number of shares and par value)

	December 31, 2021 2020			
				2020
Assets				
Current assets:				
Cash and cash equivalents	\$	16,601	\$	17,576
Marketable securities		31,397		44,378
Accounts receivable, net		14,039		11,335
Prepaid expenses and other current assets		4,629		2,381
Total current assets		66,666		75,670
Equity investments		6,775		6,234
Property and equipment, net		57,809		45,633
Operating lease right-of-use assets		12,155		9,348
Intangible assets, net		634		623
Goodwill		19,197		19,050
Other assets		2,751		2,758
Total assets	\$	165,987	\$	159,316

Accounts receivables

- Receivables (or trade debtors) are important for a company's liquidity.
- If a company is unable to collect its receivables, they may have problems having enough cash to pay for their business operations. The faster they can collect, the better.

Question: If a company sales increase, would AR increase or decrease?



361 Degrees	2006	2007	2008	2009	2010	2011	2012
Revenue (millions)	262.92	373.35	1,317.07	3,446.59	4,330.80	2,382.80	4,950.58
AR (millions)	68.69	83.72	537.18	1,413.51	895.7	2,354.81	2,111.51
			007120			2,000 1102	



(a) Ageing analysis

Trade debtors and bills receivable (net of allowance for doubtful debts) have the following ageing analysis, based on the date of invoice, as of the end of the reporting period:

	The Group			
	At	At		
	31 December	30 June		
	2011	2011		
	RMB'000	RMB'000		
Within 90 days	1,663,756	1,519,287		
Over 91 days but within 180 days	609,612	62,371		
Over 181 days but within 365 days	81,440	-		
	2,354,808	1,581,658		

Trade debtors and bills receivable are due within 30-180 days from the date of billing. Further details on the Group's credit policy are set out in note 27(a).



Inventory

- Inventory refers to raw materials, work in progress (WIP) goods and finished goods that the business holds for production or sale to customers.
- Rising inventory without a proportionate rise in sales is a red flag!

Red Flag: Sharp Increase in Inventories

The New York Times

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H&M, a Fashion Giant, Has a Problem: \$4.3 Billion in Unsold Clothes



The fashion retailer H&M reported poor earnings on Tuesday, and is sitting on a huge pile of unsold clothes. Horacio Villalobos/Corbis, via Getty Images



By Elizabeth Paton March 27, 2018



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Red Flag: Sharp Increase in Inventories

H&M	2011	2012	2013	2014	2015	2016	2017
Revenue (millions)	109,999	120,799	128,562	151,419	180,861	192,267	200,004
Inventory (millions)	13,819	15,213	16,695	19,403	24,833	31,732	33,712
Inventory/ Revenue	12.56%	12.59%	12.99%	12.81%	13.73%	16.50%	16.86%

May 28, 2022 2:12 AM GMT+8 Last Updated a month ago

U.S. Markets

U.S. retailers' ballooning inventories set stage for deep discounts

П

By Siddharth Cavale and Arriana McLymore

4 minute read





Inventory to sales



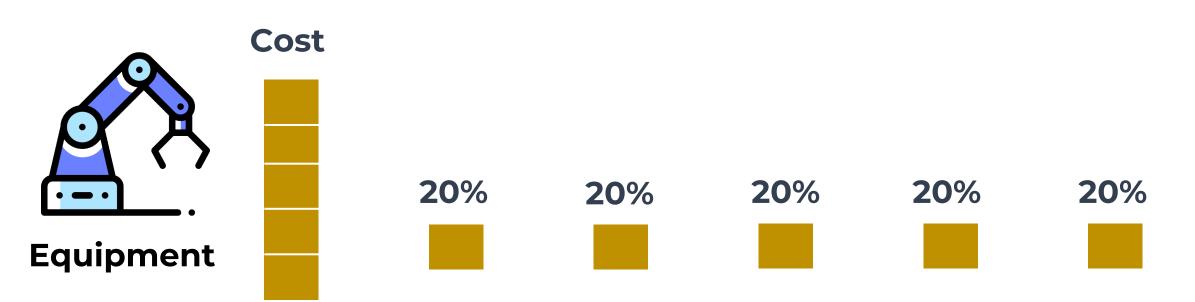
Non-Current Assets

Property, Plant & Equipment (PPE)

- PPE consists of long-term fixed assets such as land, vehicles, buildings, machinery, and equipment — which are used to manufacture products or to help provide the company's services to customers.
- PPE are capitalized on the balance sheet rather than expensed, meaning that the cost of the asset is spread over a number of years it is used (known as depreciation).

How Depreciation Works





Non-Current Assets

Intangible Assets

 Intangible assets are non-physical assets like patents, trademarks, copyrights, and intellectual property (IP) — the values of intangibles are recorded post-acquisition.

Long-Term Investments

• Investments such as bonds, notes, or equity that the company intends to hold for more than a year.

Non-Current Assets

	December 31,		
	 2021	2020	
Assets			
Current assets:			
Cash and cash equivalents	\$ 16,601	\$ 17	7,576
Marketable securities	31,397	4	4,378
Accounts receivable, net	14,039	1	1,335
Prepaid expenses and other current assets	4,629		2,381
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Operating lease right-of-use assets	12,155	1	9,348
Intangible assets, net	634		623
Goodwill	19,197	1	9,050
Other assets	2,751		2,758
Total assets	\$ 165,987	\$ 15	9,316

Liability

- Liability is what the company owes to fund the purchase and maintenance of assets.
- Classified into:
 - **Current liabilities** are obligations or debts owed by the company to suppliers and banks that are repayable within a year.

E.g. Account payables, short term debts

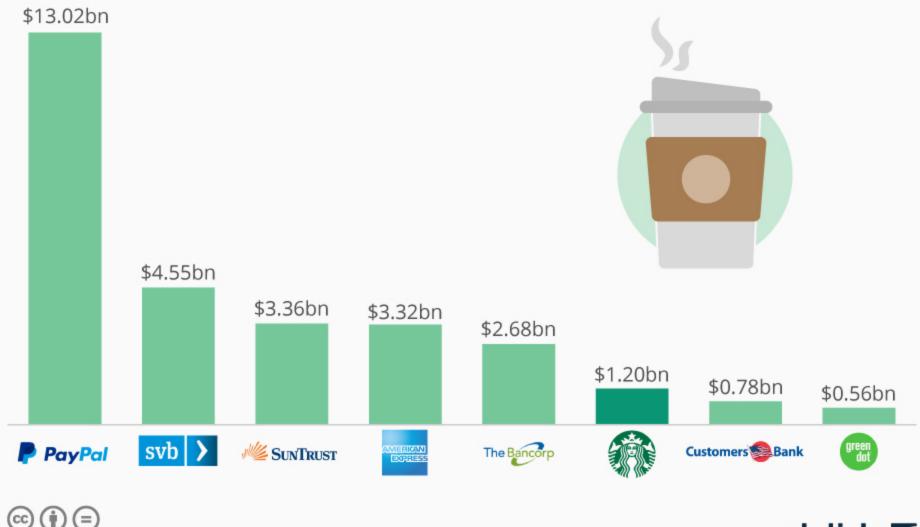
- Non-current liabilities are obligations or debts owed by the company to suppliers and banks that are repayable beyond a year.
 - E.g. Long term loans

Current Liability

- Accounts payable is the total unpaid bills owed to suppliers and vendors for products/services already received.
- Accrued expenses often refers to employee wages or utilities yet to be paid off in cash.
- Deferred Revenue is created when a company receives cash payment in advance for goods or services not yet delivered to the customer.
 - E.g. Starbucks prepaid card.

Starbucks Holds More Cash Than Many Banks

Consumer cash held by institutions in 2016 (billion U.S. dollars)



@StatistaCharts Sources: WSJ, S&P Global Market Intelligence, Starbucks



Current Liability

Liabilities and stockholders' equity

Current liabilities:			
Accounts payable	\$ 4,08	3\$	1,331
Partners payable	1,052	2	1,093
Operating lease liabilities, current	1,12	7	1,023
Accrued expenses and other current liabilities	14,31	2	11,152
Deferred revenue and deposits	56	1	382
Total current liabilities	21,13	5	14,981
Operating lease liabilities, non-current	12,74	6	9,631
Other liabilities	7,22	7_	6,414
Total liabilities	41,10	8	31,026

Non-Current Liability

- Long-term loans, debentures
- Long-term lease obligations

Non-Current Liability

Liabilities and stockholders' equity

Current liabilities:		
Accounts payable	\$ 4,083	\$ 1,331
Partners payable	1,052	1,093
Operating lease liabilities, current	1,127	1,023
Accrued expenses and other current liabilities	14,312	11,152
Deferred revenue and deposits	561	382
Total current liabilities	21,135	14,981
Operating lease liabilities, non-current	12,746	9,631
Other liabilities	7,227	6,414
Total habilities	41,108	31,026

Shareholders' Equity

- Shareholders' equity is the value of all assets after all liabilities are paid.
- Generally, the higher the more valuable a company is.

Shareholders' Equity

Stockholders' equity:		
Common stock, \$0.000006 par value; 5,000 million Class A shares authorized, 2,328 million and 2,406 million shares issued and outstanding, as of December 31, 2021 and 2020, respectively; 4,141 million Class B shares authorized, 413 million and 443 million shares issued and outstanding, as of December 31, 2021 and 2020, respectively 31, 2021 and 2020, respectively		_
Additional paid-in capital	55,811	50,018
Accumulated other comprehensive income (loss)	(693)	927
Retained earnings	69,761	77,345
Total stockholders' equity	124,879	128,290
	A 475.000	<u> </u>



Stress-Testing a Company

1. Are they in a net cash position?

Net Cash = Cash & Cash Equivalents – Debt

Assets

Current assets:	
Cash and cash equivalents	\$ 16,601
Marketable securities	31,397
Accounts receivable, net	14,039
Prepaid expenses and other current assets	4,629
Total current assets	66,666
Equity investments	6,775
Property and equipment, net	57,809
Operating lease right-of-use assets	12,155
Intangible assets, net	634
Goodwill	19,197
Other assets	2,751
Total assets	\$ 165,987

Liabilities and stockholders' equity

Current liabilities:	
Accounts payable	\$ 4,083
Partners payable	1,052
Operating lease liabilities, current	1,127
Accrued expenses and other current liabilities	14,312
Deferred revenue and deposits	 561
Total current liabilities	 21,135
Operating lease liabilities, non-current	12,746
Other liabilities	 7,227
Total liabilities	41,108

Stress-Testing a Company

2. What is their Debt-to-Equity ratio?

Debt/Equity Ratio = Total Debt / Total Shareholder's Equity

Rule of thumb, look for companies with a ratio below 0.5.

Above 1 indicates that company is highly leveraged & aggressive with using debt to finance business.

Exception for companies with highly predictable cash flows.

Liabilities and stockholders' equity

Current liabilities:	
Accounts payable	\$ 4,083
Partners payable	1,052
Operating lease liabilities, current	1,127
Accrued expenses and other current liabilities	14,312
Deferred revenue and deposits	561
Total current liabilities	21,135
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Other liabilities	 7,227
Total liabilities	41,108
Commitments and contingension	

Commitments and contingencies

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Additional paid-in capital	55,811
Accumulated other comprehensive income (loss)	(693)
Retained earnings	69,761
Total stockholders' equity	124,879
Total liabilities and stockholders' equity	165,987

Stress-Testing a Company

3. Interest Coverage Ratio

 $Interest \ Coverage \ Ratio = \frac{Operating \ Cash \ Flow}{Interest \ Expense}$

Measures a company's ability to pay its interest on outstanding debt. The higher the ratio, the better it is able to pay its interest.

Red flag: ICR below 1.5 is considered extremely risky. Above 3 is considered safe.

Domino's Pizza, Inc. and Subsidiaries CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

		F	For th	
	J	anuary 2, 2022		
Cash flows from operating activities:				
Net income	\$	510,467	\$	
Adjustments to reconcile net income to net cash provided by operating				
activities:				
Depreciation and amortization		72,923		
Loss on sale/disposal of assets		1,189		
Amortization of debt issuance costs		7,509		
Provision (benefit) for deferred income taxes		1,988		
Non-cash equity-based compensation expense		28,670		
Excess tax benefits from equity-based compensation		(18,911)		
Provision for losses on accounts and notes receivable		659		
Unrealized gain on investments		(36,758)		
Changes in operating assets and liabilities:				
Changes in accounts receivable		(8,107)		
Changes in inventories, prepaid expenses and other		(9,420)		
Changes in accounts payable and accrued liabilities		51,346		
Changes in insurance reserves		6,216		
Changes in operating lease assets and liabilities		1,210		
Changes in advertising fund assets and liabilities, restricted		45,225		
Net cash provided by operating activities		654,206		
			_	

Interest expense

(191,806)