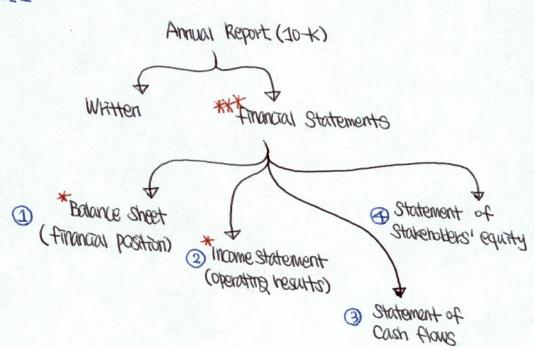
PartI



- A financial manager's primary goal is to maximize shareholders' wearth. In other words, the primary goal is to maximize the fundamental, or intrinsic, value of the firm's stock. This value is based on the stream of cash flaws the firm is expected to senerate in the future.
 - Ofmancial decision-making requires thee cash flow (FCF)
 - 2) FCF is total cash flow available for future investment and payment of a rate of neturn to capital givers/providers
- How does an investor 30 about future cash flows and how does a financial manager decide which actions are most likely to increase Cash flow?

Answering these questions, we need to understand financial statements that publicly traded firms must provide to the public

Let's take a look (1) ~ (1) one by one :)

Deliance sheet is a statement of the assets, liabilities, and capital of a firm/organization at a particular point in time; it provides a snapshot of its financial position/view.

V Total assets (TA) = Total Liabilities (TL) + Share holders' Equity (TE)

- @assets hepresent the uses of a firm's funds; assets show what the firm "Owns"
 - (b) Itabilities represent the sources of a firm's funding; Itabilities show what the firm "owes"
 - Oshareholdens, eduty hebresents the amount of financing the firm experiences through common and preferred shares.
- Baiance Sheet (Financial Position)-

Asset Liability
Equity

* Assets

- Current assets ; Cash .

(Working capital) account receivable (AR) ,

marketable securities (MS) ,

inventory ,

others

- Non- Current assets; financial assets,
investment property,
Property, plant, equipment(ppE),
intangible assets,
3003 Will

*Liabilities

-Current: Occount poupule,
note poulable,
accrued trability,
unearned revenue

-Non-authent; long-term financial liability, deffered tox liability

*Equity (= net asset)

- Contributed Capital
- hetained earnings
- accumulated other comprehensive income - (treasury stock)

X: Classified balance sheet: Current vs. Non-current (most) — (treasury liquidity based format: most → least 1 iquidity (bombine industry)

Method of Reduction; Depreciation, Amortization, and depletion. How to distinguish them?

(a) Depression; Tupe of Asset? Examples?

Fixed asset Building, Machinery, etc

(B) Amortization; Intemplate asset

Copyright, Potent (S) ...

© Depletion ;

Hmeral/Notural

... 29 nime 100 e 99 TT

② Income statement (operating results) is a financial statement listing the revenues, expenses, and (net) income of a firm/organization in a period of time.

v * Income Statement Coperating results)

Sales Revenue (Cost of 2008 Sold; COGS ≈ Cost of Sales)

"Hand souls"

(Selling, General, and Administrative expenses)

(Depreciation Expenses)

"Operating profit (EBIT)"

(interest expenses) (tax expenses)

Income from continuing operations
discontinued operations (barely existing)

"net income (> net eatnings)"

- "Cash flaus".
- Cash flows and (net) profits from an income statement one visually different.* Why?
 - @ Because the income statement is interested in measuring profit in a specific time period and certain assumptions vary profit measurement from cash flow measurement.

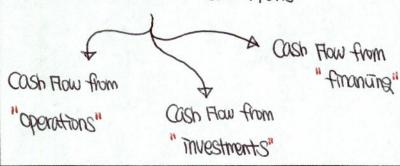
(non-cash expenses are components to measure Profit(s), but need to add back to (ar subtract from) to Profit(s) to estimate auch flows)

(B) Because different accounting method: Cash vs. Acctual.

Difference? main difference lies in the timing of when sales and burchases are recorded in accounts

- Cosh accounting recognizes revenues/expenses only when cash/money changes hands
- Accrual accounting recognizes revenues when a film counted, and expenses when a firm billed, but not paid.
- 3 Statement of Cash Flaws is a financial statement that presents a firmlotganization's cash receipts and cash payments over a period of time.

* Statement of Cosh Flows



A Statement of Shareholders' Equity is a financial statement that highlights the changes in value to Shareholders' equity from the beginning of a given accounting period to the end of that period, and the business activities that contribute to whether the value of Shareholders' equity increases or decreases.

PartI

• How to calculate Free Cosh Flow? Negotive FCF is bod? Why?

Changes in net fixed assets on the balance sneet between years and then add back depreciations lamor—tization for the current year.

• Financial (aucunting) statements are not sufficient for evaluating financial managers' performance because they to not reflect (current) market values. How to measure performance?

* Performance Measurement

Market Value Atted (MVA);

it shows the difference between the market value of a firm's equity and the book value.

(appricable to entire firm)

Economic Value Abbel (EVA);
it shows/estimates a firm's
economic profit.
(applicable to entire firm and
divisional level(s) as well)

PartIII

Taxes usually have a mojor affect on financial decisions. In other words, taxes paid to state/governments affect cash flows available for Shareholders.

Taxes

Personal taxes;

XXX

Please talk to your OPA or EA:P, but...
Dividend and interest income is
taxed as Ordinary Income

* Corporate taxes; every corporation is taxed on its taxable revenue adjusted for tax deductible business expenses, such as interest and COGS.

- · Maramal tax rate vs. Average tax rate
 - (1) Marginal tax rate represents the above taxes (\$ owed for each additional \$ of taxable income. This rate is closely related to financial analysis/decision.
 - ② Average tax vote describes the total tax owed divided by income before taxes. This rate is historical, but not for financial analysis decision.
- · Tax avoidance vs. Tax evasion
- Tax avoidunue is legal and involves tax reduction purposes/strategies
- 2) Tax evasion is inlegal activity, but in many situations, it is tolerated from a noral point of view.

Part IV

· Ratio analysis

Return on equity (ROE) =
$$\frac{NI}{Equity} = \frac{(15)}{NI} \times \frac{(85)}{Sales} \times \frac{Equity Turnouer}{Asset}$$

(Share holders expect to earn)

(a neturn on their money)

(BS)

(BS)

(BS)

(BS)

(Asset)

(BS)

(BS)

(Asset)

(BS)

(BS)

(BS)

(BS)

(Asset)

(BS)

(BS)

(BS)

(BS)

(Asset)

(BS)

(BS)

(BS)

(BS)

(BS)

(Asset)

(BS)

 \dot{X} . Dupont System = ① \dot{X} ② \dot{X} ③ = Net profit Margin \dot{X} Asset turnover \dot{X} Financial leverage

(1) Net Profit Margin (2) Gross Profit Margin = Choss Profit / Sales

Operating Profit Margin = Operating Profit / Sales

2) ASSET TUTTOUER

Fixed ASSET TUTTOUER = Sales / Fixed ASSET

This vario measures

the value of a firm's

Sales 3 it used as

an indicator of efficiency

Payable Turtouer = Purchase / Avg. poyable

- 3) Financial Leverage Debt to Equity Ratio = Debt/Equity
 This ratio measures how much
 assets a firm holds relative Debt to Asset Ratio = Debt/Asset
 to its equity
- · Liquidity Ratio
- 1 Outent Ratio = Current assets / autent liabilities
- @ Quick Ratio = (Current assets Inventory) / current Mabilities
- 3) Oash Ratio = (Oash+Marketable Securities)/Quirent habilities

Financial Statements and Taxes

1. Alex Corporation's 2018 and 2017 balance sheets (in thousands of dollars) are shown.

Alex Corporation December 31 Balance Sheets (in thousands of dollars)		
(in mousands of donars)	2018	2017
Assets		
Cash	\$ 102,850	\$ 89,725
Accounts receivable	103,365	85,527
Inventories	38,444	34,982
Total current assets	\$ 244,659	\$ 210,234
Net fixed assets	67,165	42,436
Total assets	\$ 311,824	\$ 252,670
Liabilities and equity		
Accounts payable	\$ 30,761	\$ 23,109
Accruals	30,477	22,656
Notes payable	16,717	14,217
Total current liabilities	\$ 77,955	\$ 59,982
Long-term debt	76,264	63,914
Total liabilities	\$ 154,219	\$ 123,896
Common stock	100,000	90,000
Retained earnings	57,605	38,774
Total common equity	\$ 157,605	\$ 128,774
Total liabilities and equity	\$ 311,824	\$ 252,670

1) Sales for 2018 were \$445,150,000, and Cost of goods sold (COGS) was 14% of sales. There was no selling, general, and administrative expenses. Furthermore, depreciation and amortization were 12% of net fixed assets, interest was \$345,000,000. The corporate tax rate was 44%. Given this information, construct the Alex Corporation's 2018 Income statement.

Alex Corporation Income Statement			
(in thousands of dollars)			
	2018		
Sales	\$ 445, 150,000		
Cost of Goods Sold	(62,321,000)		
Gross Profit	382,829,000		
Selling, General, and Administrative Expenses	Ø		
Depreciation and amortization	(8059.80)		
EBIT	382,820,940,20		
Interest expense	(345,000,000)		
EBT	37,820,940.20		
Taxes (44%)	(16,641,213.69		
Net Income	21,179,726.51		

²⁾ Calculate 2018 and 2017 net operating working capital (NOWC) and 2018 free cash flow (FCF)

2. Emma Corporation has taxable income of \$18,300,000. Calculate its total tax liability.

Corporate Tax Rates				
9%		\$0 - \$80,000		
22%		\$80,001 - \$175,000		
30%		\$175,001 - \$500,000		
35%		\$500,001 - \$10,000,000		
48%		Over \$10,000,000		
Additional surtax:				
	5% on income between \$100,000 and \$335,000			
	3% on income between	n \$15,000,000 and \$18,333,333		

$$7/200 = 80,000 \times 97.$$
 $20,900 = (145,000 - 80,000) \times 227.$
 $97,500 = (500,000 - 145,000) \times 307.$
 $3,325,000 = (10,000,000 - 500,000) \times 357.$
 $3,984,000 = (18,300,000 - 10,000,000) \times 487.$
 $11,450 = (335,000 - 100,000) \times 57.$
 $+ 99,000 = (18,300,000 - 15,000,000) \times 37.$

" $7,545,350$ "