## BUAD 203 - Principles of Accounting

Chapter 1 - Financia | Statements and Bussinen Decisions

two groups of people in business

- · Stockholders (owners), expected to receive (dividends (cash paid pershare)
- Creditors individual Lean & to companies return = Interest

## The Accounting System

Financial Accounting (financial statements)

external

Creditors, investors

Managerial Accounting
Chandle costs of things. efficiency, entire cores,
path,)
Internal (Involve company Strakery)
Keep Information to yourself

### 3 hupinen Activities (FIO)

1. Financing

get \$1 to Start the busings

> capitals gather \$1

i.e. Selving tunership, bernow \$1,

invest \$1

2. Investing
Purchase stufflequipment
for business

3. Operating

## 4. basic Financial Statements

- 1. Balance Sheet (account balance & values = assets, debts/liabicities, equity)
  asset debt = equity (value of the business)
- 2. Income Statements (revenues, expenses) het income = rev. expenses

  3. Statement of Stockholder and it.
- 3. Statement of Stockholders' equity
  (more detailed from equity from balance sheet)
- 4. Statement of Cash Flows

  (i.e. do fax report for you, not pay yet but own you) (receive abill-not pay but cash accounting: revenues' recognized when earned. expenses when incurred incurred

#### 1. Balance Sheet (a point, clate)

Equity = Assets - Liabilities

Assets

cash Short-term Invest. (less than 14r) and tend to earn less ) linvest in stick, bond, etc) accounts receivable (# ppl owe you) i.e. for college, I own # to the college A completed BIS taxes, B hasH+ pay, for A cicct. receivable

note receivable = contract Inventory (stuff to sell) he, cars intend to sell to she lise Supplies ( things need, (ow # item to run the business) 1.e. pens, paper prepaid expense = paying for sth in advance, but a period of time you can get the # back, he tuitions, subscription to Publications

long-term investments (longer than lyr) intent to invest. equipment: Sth inside the building (net) - depreciation is taken into account building, (and (at original price paid) Intangibles = Interlegnal properties, copyrights, patterns , software

## Liabilities

Accounts payable: # you owe to run your business (other pplis \$). I.e. Sell cars, clothes (others #)

Accrued Expenses = accomulating. he. Interests (time. Interest %, and borrow)

Notes payable = contract to pay # La function of time, time passes, taxes payable It accimulates

unearned revenue = \$ came in the door but havn't earned he college earned # after AID period i.e. cash came/deposited into the bank

bonds payable: legal instrument, contract, gour approval Income Taxes Payable: unpaid taxes

### Equity

common Stock:

retained earnings: # companies earned thin operations + kept.

# The Accounting Equation

A = L + SE

Assets = Ciarbilities + Stockholder's equity is a function of

Purchase W/ cosh or with bornowed

borrow #

have \$ earned

## Income Statement (a period of time)

Revenues

Sales revenue

I.e. buy coffie

Fee revenue

i.e. library fee/fine revenue

luterest Vevenue

rent revenue

Expenses

cost of Goods Sold

Sell Sth from Inventory

what I pay for the goods I sell to you

(inventory -> last of goods sold)

wages expense

rent expense

Interest expense

Advertising, Insurance, repoir, income tax expense

Depredation expense: cost allocation

i.e. cost of truck, allocate it to years used

Income Taxes expense: paid taxes match revenues w/ associated expense

Net Income/loss (the bottom line)

Statement of Stockholders' Equity (a period)

common stock: ownership in the company, can be owned by everyone willing to pay

retained earnings: het Income

beginning Retained earnings that moone - dividents

= Ending retained earnings

dividends are NOT expense! = return of capita // investment

Statement of cash flows (a period) 4.

accrual method: accounting

(1) revenues recognized when earned (not paid in ash)

(2) expenses are reported when incurred

cash flow (OIF)

cash flow from Operating Activities, Investing, Financing

or in () for outflow +/- CFI

+/\_ CFF

### Ensuring the Accuracy

- 1. Control Segregation of oluties (fraud, mistakes)
- 2. Auditors
- 3. Board of directors

## 3 types of bussiness

- 1. Sole proprietorship = one owner
- 2. Partership = 2 or more
- 3. Corporation: thru shares of stock

  limited liability: loss the value of stock

  continuous

  transfer of currenship: thru stock

  double taxation: Income, taxed to company

  olivideness, taxed to you

## Chapter 2 Investing and Financing Decisions

materially, in percentage, = significance.

External Events i.e. buy sth/equipment change in the balance shoet Internal Events i.e. insurance paid in advance

Accounts

Every transaction affects at least two accounts and A=L+SE must bacance

Keep Track of Account Balances

Debit: left, on the left Taccount and equation credit: right, on the right debit credit and equation

Debit always T assets on the left; credit Ton the night b liability on the night

Assets = Liabilities + + w/debits + w/credits. + w/credits

Account Bolonces debit balance credit credit balance

e.g. + in flex plan : debit balance (asset) CAMILT BE BELOW ZERO Assets = cannot be negative asset -> debit balances Ciabilities: cannot have negative Ciabilities } -> credit

- · Journal = a collection of transactions debits are always first , on top Debits = Credits ··· Credits are indented
- General Ledger = a collections of accounts
- Trial Balance: 3 elements (A, L, SE)
- Classified Balance Sheet: current, non-current (12 mos, 1 yr) Stockholders equity is always current.

Current radio = Current Assets Current Liabilities - do wehave enough current anet to pay current liabilities

Investingactivities: buying, selling noncurrent assets and investments Operating (chpt 3.) Financing: borrow, pay debt (short-term loans), 155 ve/repurchase stock,

w/ customer & supplier, interest payments earning on investments

Chapter Operating Decisions and the Accounting System

Income Statement: Operating phrase

Operating Cycle: purchase good & Services on credit (no cash) -> Seli G&S to customers -> receive cash from customers -> pay cash to suppliers

Elements on Income Statement

cost allocation (time= est, usegetime of asset)

peripheral { Gains: Cost of asset - accommutated depreciation - Sales value >0, 1 net manner (don't de preciate land) (Disposs of Assets)

Peripheral activities (non-operating) = income from other sources, gain/10,50 on disposal Operating activities = nature of bussiness of assets

Earning per Share = net income share

## Operating Expenses

expensiture is an outflow of cash, expense recognizes when we incorrit

Matching Principle: connect associated vevenue w/ expenses

Net profit Margin = net income Netsales/operating Revenue

> Chapter 4 - Adjustments, Financial Statements, the Quality of Earning

Types of adjustment

Revenues

1 cash

05

O Deferred revenues © Accrued revenues

pevene earned to @cash

tuition

Ex.

cloing tax for you

Expense

O Deferred Expenses

Ocash L

DAccured Expenses

Expenses incorrect

tuition, vent, insurance.

@ cash

AJE adjusting Journal Entry (Debits, Credits) donc at the end of accounting period, usually done by computer automatically.

Depreciotion

ne buy an asset, plan to use 5 yrs match expense w/ revenue

accumulated depreciation (+XA,-A)

XA : reduces the value of assets (contra-asset)

Interestrate are annual.

properly and equipment accumulated depreciation ) >> newners of equipment

permanent accounts - on the balance sheet (A, L, SE)
accumulate overtime

Temporary accounts: specific time, (rev., exp.) effect of the end of period is moved to balance sheet

Earnings per Sherre = Conty in hands of shereholders)

Net Income

(6nly 1 ratio regist on finance hareholders) Statement 1

#Ay. of common Share Outstanding (held by Shareholders)

Statement, buttom of Income statements

Total Asset Tumover

Net Sales (Oper. Rev.) Avg total Assetc

at least 1, higher better

(asset produce # topayitsey and get some more) Whether asset is productive,

Closing the Books

move the effect of income statement (net income) Putilipalance sheet into into into into (Income statement)

Cash Account is unaffected

Chapter 5- Communicating and Interpreting Accounting Into

The Fraud Triangle.

(good internal control)

( Corporate Govern: Policies that protect the asset

Sarbanes - Oxley Act

Triangle

Incentive : personal tempation to steal.

Opportunity = take templation = restrict apper.

Rationalization: "I deserve it" for fraud.

Seperate, segregation of duty

one person does not have total control

- Avalitors: determine whether accounts balances are correct. Work for Board of Directors
- Board of Directors : elected by stockholders
- Regulators

PCAOB = audit aciditors who audit publicly-traded companies FASB = accounting Standards

SEC

- Managers: appointed by board of directors
CEO

CFO

best (Unqualified (clean) Opinion
Quedified
adverse
discloimer

The discloure process

- 1. Press retense
- 2. Annual report
- 3. Annual report Form 10-K to SEC (Form 10-Q - quarterly)

Nonreaming items

Earnings per Share (Eps) = Net Incomo \* (- perferred olividends)

# Ang Com Share addresseding

Gross Profit Percentages = Gross Profit = Net Sales - Cost of Sales

Net Sales

( to cover operating expenses)

Statement of Comprehensive Income

Other Comprehensive (loss/income)

- Currency Translation Rate difference

factors - Fair value change on available for-sale Investments to company - -

Statement of Cash Flows

Indirect method

### Statement of Cash Flows

- Indirect method: Operating activities het income -> cash accrumi accounting

cash and cash equivalents: saving account, etc other forms other them cash

Operating

Netincome

Adjustment to reconcile

- depreciation, add back always b/c no cash involved, expenditure while reduces het income.

- Other honcash items

Investing

purchase of securities, while cash (Streks, bonds mutal funds)

Sell of securities purchase of equipment Intargible assets

- Cash useel

[Inflow]

Financing (Sell Stock, barowth) Stock: stock company has

Sad (Initial sale - invery) Olice Stock in market (Sold by others) = not on Finacial Staten) (Cash from side of stock)

Cash generated

- changes in operating assets and liabilities

Notes to Financial Statements

- 1. Policies: accounting policies/ practices notes this is how we do it & why
- Supplemental Infor detailed info about the data
- 3. Info impacts the company financially but not on balance sheet accounting rules, to borrow # Wo affecting Coff-bacance sheet) brolonce sheet. off-bacance sheet aumitment, pending lawsuit
- 4. Voluntary discloures: clon't have to do, show investors growing markets

Return on Assets (ROA) = Avg Total Assets (beg .- end.)

ROA = Net Profit Margin x Total Asset Tumover

each transactions affect the ratio

Net Income AV9 total assets Net profit Marg. ROA

# chapter 6 - Reporting and Interpreting Soles Rev., Receir, Eash

Revenue Reulization Principle : revenue recognized when earned Caraval accounting for revenue) - Good, Services delivered - pursuadive exidence of an arrangement for customer payment (verbalcontractalso V)

earned - determinable price

Collection is reasonably assured

Sale Revenue - Credit card discount fee

Net Sales

Sales discount pay early, got discount 2/10, N/30 due in 30 2% discount pryimodays

pay \$98 in lodays pay \$100 after zodays Interest \$2 In 20days \$98 =2,04% = 37.23% in a year

Sales returns and allowances

\$100 \$10 } Seperate \$ 85

Sales Revenue (fullpha)

- Cradit Gard discount

Sales discount ( discount to customers

Sales returns and allowance Net Sales

Accounts Receivable: short term = godays, busines to customer owing \$

Abtes Receivable: Usually money, cash, have contract, long (non-coment) term >147

Trade Receivable : bussiness to business

Non-trade receivable others, busines transaction. Day loaning # to employees

Bad debt: they are not going to pay you the money they owe

Matching principle: like deprediation, if 1% # never come in, looking into history bad debt Expense account to prepare for it Anticipation metched w/ associated vevenue

Bad debt Expense (+6,-5E) bebit

Credit Allowance Acount (+xA,-A)

Alloworke Account Debit

Wate-off happens

Accounts Receiv. (-A)

Credit

Contra-asset account like depredation

doilt expect to collect \$

Substract from account receivable

Aging of Accounts receivable

### Bad debt Calc methods

- 1. percentage of credit sales method

  all credit sale x percentage from history ( bad debt loss rate)
- 2. Aging receivables (more common)

  longer showes you, less likely to get it back

Matching Principle (conflict) to fix" expense incurred" leg. depreciation match expense ul revenue do estimute and record ut now

Minimize bad debt

- Cash: bearer Instrument prob: people can take your cash, vulnerable to theft, fraud
- = credit card prob : discount fee

Receivables Tumover = Net Sales

how effective you are
to collect to owed

change in account receivable affects cash flows cash equivalents: Treasury Bills, Certificates of Deposit

Cash Management: maximizes cash take discount, pay bill till last day due > (Investment?)

Bank reconciliations = bank - you sayywhere ash? ( We people take cash w/o your knowledge) bussinen = accounting - bank financial Inst your accounting sys to verify telling the truth (the balance they tell you is correct) ending cash balance from your accounting syst. ending cash bal. from bank statement interest paid by bank + deposit in transit (comesfam (ash) different NSF cheaks / service charges

Chon-sufficient fund) boud check received

errors (company) use the process Outstanding Checks Chavent been pard

Sent hat presented to reconcily agree I bankernors them Ending correct cash bal. Ending bal

Bank Reconciliation cont

after this 1. Time differences, paper-based transactions (checksiete) -Journal Entry Adjust. (Slide 6-29)

2. Errors in Recording Transaction

cash debit (+A) Creait Card discount (+XR,-R,-SE) creditual disc. debit (-R,-SE) sales revenue Sales Returns and allowances (+xR,-R,-SE) credit (+R,+SE) See 6-32 Sales discount (+xR,-R,-SE) see 6-31

## Chapter 7 - Cost of Good Sold and Inventory

Inventory Management

- minimize cost

- quality

Inventory

- Merchandisers : buy from Sb made for you

- Monufacturing : made yourself

Cost principle = inventory recorded at the price paid

Manufacturer:

raw materials

Direct = prof., personal dicting the car

Factory Overfrend : polite, parting services Cannot Connect direct to product (indirect)

Cost of goods solds

Beginning inventory + Purchases = Good Avair Goods avail sale - Ending Inventory = Cost of (bal. sheet)

Goul Sold (Inventory)

2 types of Inventory sys

1. Perpetual = account Inventory as it come in/cut real-time, instanency

update until end up period (small busines, few items) 2. Periodic =

Inventory Costing Methods

Specific identification house, cars, high dater, Jewery

- 2. First-in, first-out = first comes in from manufracture first, come out first cassome) common
- Cast-In, First-out: last comes in is first sale
- Weighted Aug

Colume esti.

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first in , First art

Oldest Cost -> Cost of Goods Sold Recent Cost -> Ending Inventory

prices change! Cost flow assumptions — depend on method Impact on het income and what's on the balance (inventory)

Last in, first out - opposite Single Cost to all units Avg Cost =

Advantages

FIFO = Ending inventory = current veplacement cost (what have topay get more)

new stuff > inventory

LIFO : matching phinciple = match cost w/ revenue

hew stuff -> sold

Weighted Aug = Smooth out price changes, good compromise.

- Net Income Effect Income Tax Effect
- If LIFO to fill taxes, have to use LIFO to produce financial Statement

Lower of cost or market method

electronics - place 11

what you paid > veplacement asst

compare what you have to replacement cost to prohibit inflation of inventory (overstate asset)

to NOT change when replace cost > cost, but change when replace cost < cost.

= Cost of good gold debit to adjust Inventory creait

Inventing Tumover =

If signif. diff. between LIFO, FIFO, company has to tell you

### Inventory & Cash Hows

change in accounts payable affect cash flow

#### Manufacturing/Cost/Managerial Accounting

Raw lurk in progess Finished Material Material -> Cost of Good Inventory good purchased Inventory Sold inventory

Compute the Cost to produce to figure out what to charge

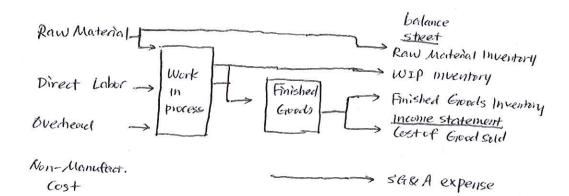
#### Manufacturing Cost

- 3 Cost Components
  - O Direct Materials
  - @ Pirect Labor
  - (3) Manufacturing Overhead = Indirect materials/cabor, etc. (property tax, Insurance, etc.) cost incurreto do bussines but hard to attack to products we est. rates to attach cost to products
- 2 types of Cost

Prime Cost: direct cest Oro Conversion Cost: # spend to convert raw materials to finished products SG&A

product us period cost

product cost: direct material, labor, overhead period cost = everything else



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deplete natural resources depreciate Tangible/physical

Intangible/non-physical

Chapter 8 - Assets (long-lived)

Tangible

Cassets used to run businens

land (donot depreciate land) othercost -allocated (depreciation) natural resources (depletion)

amortize

(tangible asset)

dated term Fixed Asset Turnover = Net Sales (- returns, etc.)

Aug Net fixed Assets

Intengible

befinite life = patent, copyright, franchises Indefinite Cife: trademarks, goodwill

( Pay fore for company then it with accounting)

more tumover (more depreciation)

Acquisition Cost = capitalize, interest not included

Buildings: S building purchase cost Renovation, repair fee legal, realty fee Title fee

Equipment & Purchase price Installation cost transportation

Land & purchase price Commissions title insurance premium Delinquent taxes Surveying title search

Acquisition by construction

direct labor, materials (raw) Overhead (charge involved but cannot direct connect) Interest on debt incurred while building (after building, not)

Repairs, Improvements

increase the value of asset, capitalized (assetized), add to asset account. depreciation Ordinary repairs and Maintance

expense in income statement

(copitalized) all acquisition cost included

depredation cust

1. Straight line 10,10,10,10,.

Calculation of

acquisition cost est. useful life est, residuel Valdue (salvage value)

2. Units of producti (depletion), nature resources

3. Declining balance: Straight line does not reflect reasity of value most in first year, less follows ..

20,10,5,...

last year underpreclated balance = Salvage value find # to make ct work

Inventory method affect het income depreciation method

### Tax reporting

Financial Reporting

Tax Reporting

1.0 Interest income (financial state) from federal debt, not taxable

income in one not shown in another

Eperating leases not reportation the BS as L, unlike financing (capital) leases

## Asset Impairment

Impairment

O Casuality

@ Obsolescence (electronics)

8 B

B Lack of demand of services

het book Value > est. flature aich flows > impaired (purc. price-deprec.)

Imparment loss = Net Book Value - fair Value (market) (of thewed) document = reduce value of asset

### Disposal

BY = acquisition cost - accumulated depreciation

Ex in slide 8-34

cash (tA)

11,000,000

> 1055 611 cash (+A) \$ 6.0 m

20.4 m

Accom. Dep. (-XA, +A) 20,400,000

Flight Eq. (-A)

30,000,000

Accom. Dep Flight Eq (-A)

30.m

Gain in Sale (+ Gain, +SE)

1,400,000

## 2. Amortization of Intargible Assets

Definite Life = Straight-line (Copyright life of creator, patent on 2041s)

Indefinite Life: annually test (Subjective), no amorbization (Goodwill, Trademarks

Goodwill : not recognized until sale of company

(reputation, employees, etc. aren't on BS)

not amortize annual review (purchase price exceeds fair market value)

FMV of Net Asset = FMV Asset - Liability

patent: recourch and develop. cost - expensed (GAAP)

- capitalized (IFRS)

8-43 GAAP US IFRS

Depletion of Notural Resources

## Chapter 9 - Liabilities

Pebt : riskiers

Equity: stock, give up ownership

Liquidity

Working Capital = Current Asset - Current Cabilities (should be more)

the abilities to

Accounts Payable Tumover = Aug Acet Payable

Avg Age of Payables (~30 days) =

refinancing debt w/ lower Interest

GAAP ability to refinance -> to reclassified as long-term

cun & metitus , prove to refinance - debt shown as long-term

IFRS actual pay off new loans -> move

estimated Clabilities

250% (IFRS)

- Probable (estimatiable) = high chance of lose >70% (GAAP)

Probable estimuida liability

Reasonally Possible

Remote

- Reasonably Possible = lose or win

Not estimulia note note

note

Not required

- Remote: IOW chance of lose

long-term liabilities

Creditor require the borrower to pledge specific assets as seccuity efor long-term liabilities

(borrower put up an asset against things they borrow 119) case they won't pay back)

leases liabilities = If lease > 1 yr, lease = liability

Operating lease : short-term lease

lessor/lessee

Capital lease: long-term lease

short lease = expense (rent expense)

Capital lease : asset, liability

PU& FV

annuity : series of payments, equal periodic payments

Inflation rate 2% Interest rate : risk (bad-debt

(real) return reward 2.5%

total Int. rate 7.3%

Journal Entry

PV=159,440 FV= \$200,000, Intrate = 12% (Interest included)

\$159,440 Jan-1 Delievery Trucks (204) \$159,440 Notes Payable

Dec. 31 Interest Expense \$ 19,133 (2014) \$19,133 Note Payable

Interest Expense \$21,429 Dec.31 \$211429 Note Payable (2015)

\$ 200,000 Notes Payable Dec.31 \$200,000 cash 2015

## Chapter 10 - Bonds

Advantage: tax deductible borrow # low int rate, invest in my company, return at higher percent (but no granaute) Disadr. = bankrupt

bond components: principal, cash int. payments, contract int rate, market int rate Callable Bond = bend be called & reissued Convertible Bonds: bonds es stocks fortrade-in

O stated = market rate (10-8) at par get good value Times Int. Earned

@ stated < Market rate bond discount : lower price of bond for Int. paying?

13 Started > Market rate bond premium

Discount Pev, using market vate, bond principal PV, Using market intrate, payment stream of int.

effect Interest Cash (+A) Discount on Bond Bond Payable

amortize = allocate discount/premium

Straight-line 1 effective interest

1/1/2014

#96,536 · 12% · ½ = \$5,792

face 100,000 bond

Instead of face Int. Unlue

10% int. face.

\$5,792-\$5,000 = \$792 Disc. amurization \$3,464 - \$792 = \$2,672 Unamortized disct.

\$ 96,532 + \$ 792 = \$ 97328

bond premium : rise the price \$103,630 - 8% · = \$4,145 13414 \$102,776×8%×== \$4.111 12/31/14 \$5,000 - \$4,145 = \$ 855 Gitry \$5,000- \$4,111=\$889 \$3,630-\$855=\$2,775 92,775-4889= \$1,886 \$ 103,630-\$ 2775-855= \$102,775 \$102,775-\$889= \$101,886

Debt-to-equity = total liabilities (creditors) Equity (owners)

EX \$20,000 Face 2 years - Semi-annual 12% face 10% market

present Value of Annity = (P) (1-(1++)-1)

PV(principle) = \$16454 = 20000 PV(1n+) = PV(\$20,000)(12%)(\$255 = 11200 + 1200 +have to pay int.

# Chapter 11 - Equit

Shareholders; elect the boards, clividends, liquidation

Authorized Sheires & unissued

(Issued Coutstanding (standoutside of)

Treasury: brought back, reaquired stock

SE { Retained Earning Contributed Capital { common stock par

- If people buy and sell stock, transaction NSTHING TO DO W/ accounting revoral

Dividend yield = Dividends Per Share Market Price (Stock) Per Share

preferenced Stock = get dividend first, fix dividend rate no voting rights

preferred Cumulative > preformed non-cumulative > Common Stock

Colaterial = obligation.

retained earnings reserved/obligated to support a loan

Treasury Stock : reduces SE

# Statement

Cash and Cash Equiv.

Operating Activities = from moone Statement interest(paid/receivel)

Investing Activities & from BS

15sue stick, borow \$ , pay back loan (principal)

Work from Bottom up

Operating Activity

In Direct Method ( Common)

Net Income from Income Statement

Undo hon-cash transaction

- add back depreciation, amortization (bought of asset

Convent assets = accounts receivable, Inventory, prepaid Expense - cunted as Invest. Section)

100 1 Net income

Cash

A.R. 100 \$ N.I.

Dash + D Non-Cash Asset = D Wab. + DSE.

D Cash= O Cab. + DSE. - U Non-Cash Asset

(direct method)

Indirect method only apply to operating Section & oliveet

changes in balance

Increase decrease

Current Asset

Current Add to NI

Current Liabilities

Changes in balance

decrease

Add to NI

Subtract from NI

A.V. (Truck-A.D.) 8000

Gain 2,000 Income > operating
Statement Statement Gain 1 or 4 will count twice

### Adjustments

bep. exp - Depreciation: add back \$1000 WI & but no cash involved A.D. - Accounts vereivables A.R. \$2,078 \$2.078 NI 1 but no cash involved Current Revenue - Inventory : add if decreur \$11319 Gogs NID but no cash invilved Inventory \$1,319 Prepaid Expense: sub. if 1 Prep. Exp \$4,219 (asset) NI & but cashdid flow cash Exp acct. pay. \$829 NIL, no cash includ

- Accrued Exp.
add it 1

Payable \$30.49 NIL

Quality of Income ratio Cap Aquisition ration Free Cash How = Notes - Address in Financine Section

Investing

depreciation changes - changes in assets

Direct Method

(+)

Cash from Customers = Bajin Acc. receivable + Sale - ending Acc receiv

Yent expense = beg. prepaid rent + cash paid for rent - prepaid rent, end

(-)

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