1. (15 points) Company X is financed 40% by debt and 60% by equity while Company Y is financed 50% and 50% by debt and equity respectfully. Y has twice more sales per dollar in its assets compared to X. It also has 1.2 times more net income per dollar in sales compared to X.
a) As an investor, which number would you be more interested in? What is that number for X compared to Y?
Emails by the peters on Equity. The Sold of the peters on Equity. The Sold of the peters of the pe
Description of the information of the posters of th
b) Based on only the information given in the question, which company would you invest on?
I would invest in company & since it has higher sales perossets
more new income per sales, and a higher assets to equity ortio.
This means that company Y has greater ROE which makes it the
c) The company that is <u>not</u> preferred by the investor increases its debt and its assets to attract investors. Do you think this is a good idea? Why or why not?
Yes because this would increase the equity multiplier cassets
which would the result in a hister ROE. This would
her a good idea single or higher ROE regens that investors
According to the end of 2018 financial statements, company has \$4,550,000 in assets and it is financed
56% by equity and 44% by debt. Its accumulated retained earnings is \$1,000,000. Company does not
have any scheduled long term debt payments until 5 years from now. Assume Zed Leppelin has a profit of \$800,000 and does not have any depreciation (a blessing from heaven).
Requirement: Company is not planning on selling or buying back stocks or distributing dividends. D= 2002000
a) If Zed Leppelin maintains a growth rate of 0% per year, what would be the debt to equity ratio at the end of two years?
Debt = 2 years = 254800+ 2 (800,000) = [0.483]
b) If the company wants to keep its D/E ratio constant, what are the options open to company given the

above requirement is satisfied.

ove requirement is satisfied.

The company could gain more debt or hybrack stocks

5%.

(dollars in millions)	Ending Balance	Beginning Balance
Assets Current assets: Cash and cash equivalents Accounts receivable Inventory Total current assets Property, plant, and equipment Less accumulated depreciation	\$ 70 536 620 1,226 1,719 640 1,079	\$ 91 572 580 1,243 1,656 480 1,176
Net property, plant, and equipm Total assets Liabilities and Stockholders' E Current liabilities: Accounts payable Accrued liabilities Income taxes payable Total current liabilities Bonds payable Total liabilities	\$2,305 \$205 94 72 371 180 551	\$ 180 105 88 373 310 683
Stockholders' equity: Common stock Retained earnings Total stockholders' equity Total liabilities and stockholders' equity	800 954 1,754 \$2,305	936 1,736 \$2,419

3. (10 points) Rowan just prepared its end-of-year Balance Sheet today. Its tax rate is 34% and is using a straight-line depreciation method. It does not distribute any dividends. Its competitor has exactly the same financials, except, it does not have any depreciation. What is the difference between the accumulated retained earnings of Rowan and its competitor 3 years from today?

Net Income = 954-936=18

Difference in accumulated retained earning

Difference in accumulated retained earning

= 123.6.3 - 18.3

| 123.6.3 - 18.3
| | 123.6.8 million | multiply by 3
| | 123.6 million | multip

4. (10 points) Give two positive and two negative aspects of financing a company via debt versus equity from the company's point of view:

	Debt versus Equity Finar	ncing
	Good	Bad
DEBT	e Con indease storetolitish equity by investing RDE allows for more morely to invest in more sports	o Con run : Ato problems o decroses NWC if start tun o decroses NWC if start tun ord incre as
EQUITY	o Having less debt mens that company is less likely to have credit problems o pay less interest and	o May be torgoing growth Opportunities by being reductant to go into least
	also courts in increasinc	results in greater equity

5. (10 points) It is the end of the year and a company has \$5 million in debt with an interest rate of 5%. Over the next year, no principal on the debt is due. Company does not want to get into more long term borrowing. However, a \$12 million stock repurchase is planned with no dividend distribution. Company does not plan to buy or sell any fixed assets, however, would like to increase its current assets by \$2 million more than it does its current liabilities. What is the operating cash flow of the company?

((A)-((B) +((s) CCB) = 0,45-0 =0.25 ((6) = (- (0 - 12) = 12 Change in NWU = 2 cress Plan to fixed presents = 0

((A) = 0,25 +12 = 12.25 C(A) = OCF - chase in NMC - (2) } OCE = CCA) + change in NWC + Coshflar to

OCF = 12:25 +2+0

6. (10 points) Use the following table to answer this question:

= \$14.25 million /

Balance Sheet	2017	2018	Income Statement		2018
ASSETS					
Cash and equivalents	190	200	Total Revenues		3,000
Accounts Receivable	560	600	Cost of Goods Sold	40%	1,200
Inventory	410	440	Gross Profit		1,800
Total Current Assets	1,160	1,240			
			Operating Expenses	33%	1,000
Gross Fixed Assets	2,200	2,600	EBITDA	27%	800
Accumulated Depreciation	(900)	(1.200)			
Net Fixed Assets	1,300	1,400	Depreciation	10%	300
	•		EBIT (Operating Income)	17%	500
TOTAL ASSETS	2,460	2,640			
			Interest Expense	3%	100
			EBT (Pre-tax Income)	13%	400
LIABILITIES AND EQUITY					
Accounts Payable	285	300	Taxes	40%	160
Notes Payable	200	250	Net Income	_	240
Accrued Taxes and Expenses	140	150			
Total Current Liabilities	625	700	Dividends	× 1	160
			Change in Retained Earnings		80
Long-term Debt	865	890		-	
25.19 15.111 2521			Shares Outstanding		500
Common Stock	200	200	EPS		0.48
Additional Paid-in-Capital	200	200	Dividends per Share		0.32
Retained Earnings	570	650			
Total Shareholder's Equity	970	1,050			
TOTAL LIABILITIES AND EQUITY	2,460	2,640			

a) (4 points) Calculate the cash flow to/from Assets: CF to Assets = OCF - Capital Expenditure - addition to NWC OCF = EBIT + Degree ton - tax = 800-160 = 640 Legital Expenditure = Consignatives and the beginning fixed assets) + depreciation and the to MWC = (1240-700) - (11100-625) = 5 = 1400-1320+3 b) (3 points) Calculate the cash flow to/from Creditors:

(F to coothors = Interest part - Cery - beging term sebt) 100-(890-665)= (75)

c) (3 points) Calculate the cash flow to/from Stock Holders:

CF to Stockholder = Piridinds - (and stack - beg stack) = 160- (200 -200) - [160]

-3.3

equip

7. (10 points) For the first time, UBER will make its financial statements available to the public when they IPO. As we talked in class, some information can be inferred from these statements and some cannot. Here is a list of things that you would like to know about the company. Circle the ones that CAN BE inferred directly from the Financial Statements:

Debt/Equity Ratio Since you know do to service moves, this can be

UBER's Market Share

Future Growth Opportunities

Patents that UBER holds

-3.3

Price that is paid to image and future potential for the companies UBER acquired to date.

uston much the

Human Capital used by UBER

8. (7 points) Draft a common-size income statement for a hypothetical firm using the following information: The tax rate is 50%. Net income, Depreciation, and Interest Expense are each 10% of Sales. Cost of Goods Sold is six times as big as Depreciation.

Let's Smy Soles = 1000

Connection Income Statement

Sales 1000 100/0 (006 600 100/0 Departmen 100 100/0 EBET 300 300/0 Tatrest 100 100/0 Dre-totion 200 100/0 Tox(\$00/0) 100 100/0

The following questions are 3 points each. For the True/False questions, you need to provide an explanation with one or two sentences in order to get any points:

9. (RUE) FALSE: in order to keep the balance sheet balanced, an increase in the total fixed assets must be offset by an equal increase in total liabilities and/or stockholders' equity.

Since Assets = Liabilities + Equity, if assets goes up, then
there must be a corresponding increase in liabilities and/or equity
to believe out the equation.

10. TRUE / FALSE) A company has a consistently increasing inventory turnover while having stable name profit margin. This implies that the costs other than COGS are going down. Profit main a first that we are consistently increasing in that means after COGS is increasing or inventory in secretary. As such, we know conclude that costs offer than COGS ore going down since those other costs don't affect increasing than costs of the c

e

11. TRUE / FALSE: A firm has negative net working capital. Over the following year, company pays its long term debt and increases its inventory. Other accounts under the current assets stay the same. Then, end of year net working capital will still be negative. The may be possible that the increase in inventory is grough to offset the existing regative net working capital. Thus, it is possible that end of year net working capital is nonnegative.

12. TRUE / FALSE: The External Funds Needed (EFN) measures the amount of debt the company needs to acquire in order to maintain its objective sales growth.

to acquire in order to maintain its objective sales growth.

After calculating the Pro Forma Staturat, Our Mont hand so we of the boline seet may be greated than the current subst to gained of state that the congress for much more subst to said. As such, EFN can also much one of the following is a capital budgeting decision? be partially by selling stocks to A determining how much debt should be borrowed from a particular lender manning objective state.

B. deciding whether or not to open a new store

C. deciding when to repay a long-term debt

D. determining how much inventory to keep on hand

E. determining how much money should be kept in the checking account

14. Which one of the following statements concerning a sole proprietorship is correct?

A. A sole proprietorship is the least common form of business ownership.

B. The profits of a sole proprietorship are taxed twice.

C. The owners of a sole proprietorship share profits as established by the partnership agreement.

D. The owner of a sole proprietorship may be forced to sell his/her personal assets to pay company

E. A sole proprietorship is often structured as a limited liability company.