1-13 W

Balance Sheet

Curent Assel Cash Acc. Receive like Inventory Other Total Fixed Asselv: Land Philograph Total Total Total Total	7,875,000 939,776 490,000 893,000 5,197,776 1,575,000 1,348,800 2,923,800 8,121,576	Curent Libilities: Acc. Pagayle 298,464 Notes Pagayle 1,170, 127 Total 1468,611 Long-Ternlissilities Long-Ternlissilities Long-Ternlest 500,000 Equity Commonstack 337,500 And To Capital 2,000,000 Preferred Stock 1,200,000 Preferred Stock 1,200,000 Relained Earnings Trancy Stock (200,000) Total Libilitiest Equity 8,121,576
	Match	

Income Statement

and the same	1 44.				
Revenue	8,281,989				
COUS	5,383,293			مائد اما علم	Y _
SURA	1,377,765	PREZEO	IT, there	must be off	· il
Operating Income	1,575,328	income	Porter!	C	
Other Incore	1,740,253 /		11, 10	^	
ESTI	3,315,581		777		
Interest	50,000	Taxrate	not give	n,	
Taxable Income	3, 265,581. (-	assure	10,2		
Taxes	653,116	100 1 2		TWIT	pro
			1-11		1

Net Income 2,612,465 - Assume 5=1?

Du-Port: ROE= PMXTATXEM

$$PM = \frac{NI}{S4ks} = \frac{2.612,465}{8,281,989} = 0.315$$
 $TAT = \frac{Scles}{6401Assels} = \frac{5,281,989}{8,121,576} = 1.02$

- The Equits Multiplier fails to take into context any espect of the current economic environment, therefore ignoring things und as recession, growth opportunition, etc.
- Tt also Evern't inherently give valuable information relative to the industry the company is in (Em of 1.2 could be good in one industry, but not another)

1)
$$G = 1000 \text{ units}$$
 II = 20000
 $V C = S$
 $F C = 100000$
 $T = S$
 $t = 0.7$
 $T = 0.1$

a)
$$EAC+FC(1-t)-t(Pep) = Q$$

$$(PI-NC)(1-t)$$

$$EAC+10000(1-0.2)-0.2(4000) = 1000$$

$$(P-5)(1-0.2)$$

$$EAC = \frac{II(r)}{1 - (1 + r)^{-T}}$$

$$EAC = \frac{20000(0.1)}{1 - (1 + 0.1)^{-5}}$$

5) The proxy for the annual financing cost is EAC, or effective amuel cost, which represents the opportunity cost of the initial investment.

a)
$$ocF_1 = ocF_2 = ... = ocF_1 = ocF$$
 $ocF = (Scles - Cest Gots) > (1-t) + t(Pep) +50$
 $ocF = (PrG - vcrG - FC)(1-t) + (Pep)(t) + 50$
 $ocF = (36000 - 5000 - 10000)(0.5) + (4000)(0.7) + 50$
 $ocF = 12000 + 800 \pm 17,800$

$$NPV = -20000 + \frac{OCF}{1.1} + \frac{OCF}{1.1^2} + \frac{OCF}{1.1^3} + \frac{OCF}{1.1^4} + \frac{OCF}{1.1^5} + \frac{SU}{1.1^5}$$

$$NPV = -20000 + \frac{\alpha F}{0.1} \left[1 - \frac{1}{1.15} \right] + \frac{2400}{1.15}$$

$$PV = \frac{260}{1.1} + \frac{1200}{1.1^2} + \frac{1200}{1.1^3} + \frac{2800}{1.1^5}$$

$$PV = \frac{2050}{1.1} + \frac{100}{1.1^2} + \frac{1200}{1.1^3} + \frac{1200}{1.1^4} + \frac{1200}{1.1^5}$$

$$II = 8000$$

$$V = \frac{2300}{1.1} + \frac{2150}{1.1^2} + \frac{2150}{1.1^3} + \frac{2150}{1.1^4} + \frac{2150}{1.1^5}$$

$$PV = 8286.56$$

$$AHB$$

$$T = 10000$$

$$PV = \frac{2750}{1.1} + \frac{2300}{1.1^2} + \frac{2400}{1.1^3} + \frac{2400}{1.14} + \frac{4000}{1.15}$$

$$PV = 9872.35$$

$$PI_{AO} = 0.97$$

if PI>1, then PV of future cash flows is greater than the initial investment.

6 Since NPV = - Initial Investment + PV of cash flows 6 PI > 1 Means NPV > 0

The company vill break even from an accountins perspective

must be covering all its floraged costs

La This means that the WPV of the project must be 20

Los By definition, the accounting break even point is less than the financial BEP since it ignores financing costs

Exancially breaking even

breaking even from an accounting perspective

The company will financially break even Mes?

The NPV is greater than zero Yes]
by see top

e bring back to current

$$P_0 = \frac{\$5.11}{(1.12)^5}$$

(10.) P-> f and X Rp=0.075 Rx=0.12 Rx=0.03 Rn=0.1086 7> find yxm σρ= 0.27 σx=? σf=0 9xn= Txn JAM = Bx JM2 Sxm = 5xm Rx = Rf+ Bx (Rm-Rf) 0.12 = 0,03+ Px (0,1066-0,03) Rp= xxRx +xfRf 0.075= Xx (0.12) + (1-Xx) (0.03) Bx= 1,145 0.075 = 0.12×x + 0.03 - 0.03xx 5xn= 1,145 (0.18)2 x = 0.5, x = 0.5 5×m=0.037 5 = x 2 Rx2 = 3 Op = XX TX 0.27 = 0.5 (Jx) Jx = 0.54 9xn = 0.38