## **TE 566 Finance for Engineering Management**

## Homework 1

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Balance Sheet Week 1

BALANCE SHEE		OVER PRIMATE A DITE	PTTPC
CURRENT ASS	SETS	CURRENT LIABIL	LILES
Cash Accounts receivable	\$ 65,000	Accounts payable	\$ 25,000
Inventory	\$ 30,000		\$ 25,000
Total Current Assets	\$ 105,000	Total Current Liabilities	3 23,000
FIXED ASSE	TS	LONG TERM DE	EBT
Building	\$ 100,000	Mortgage	\$ 75,000
Total Fixed Assets	\$ 100,000	Total Long Term Debt	\$ 75,000
		Net Worth Beginning	\$ 100,000
		Gross Profit*	\$ 5,000
		Net Worth Ending	\$ 105,000
		Total Liabilities	
Total Assets	\$ 205,000	& Net Worth	\$ 205,000

(\*profit from example sale)

Week 2 Assumptions:

-> Inventory (\$15,000) sold.

-> Gross margin = 40%, Cost = \$15,000

Selling price = \$25,000

→ Cash → 60% → \$15,000.

-> Credit -> 401. -> \$10,000

- Inventory purchases (Payables) are paid this

week (\$25,000)

BALANCE SHEET	WEEK 2
CURRENT ASSET	27
Cash	\$52,000
Accounts Receivable	\$20,000
Inventory	\$15,000
O	

Total current assets

FIXED ASSETS

Building

Total fixed assets

CURRENT LABILITIES

Total \$0

\$87,000

\$ 100,000

\$100,000

Gross Profit = \$10,000.

Net Worth (at Week 1 end) = \$105,000 - \$3000

Net Worth (at Week 2 end) = Assets - Liabilities

= 102,000.

000,2FQ - 000,F81Q =

- \$112,000.

LONG TERM DEBTS

Mortgage \$75,000

Total L.T. Debt \$75,000

	Week 3	Assumptions:
$\rightarrow$	Week 1	- Account Recievables are recieved
—————————————————————————————————————	Inventory	is replenished - \$12,000
		Cash Payables \$6,000 \$6,000
	Wages p	aid at the end of week (\$2,000)

Sheet

## WEEK 3

Balance Sheet
CURRENT ASSETS
Cash
Acc. Recivable
Inventory
Total current assels

FIXED ASSETS

Building

Total fixed assels

CURRENT LIABILITIES

ole \$18,000 \$15,000

\$ 100,000

\$65,000

Acc. Payable \$6,000

xssels \$98,000

Total \$6,000

LONG TERM DEBTS Mortgage \$75,000

Total L.T. Debb \$75,000 \$100,000 Net Worth (Week 3 end) = A - L

= \$198,000 - \$81,000

= \$ 117,000 Gross Profit = \$5,000

	Week 4 Assumption	<b>J</b> :	
	Week 3 Payables Week 4.		art of
	Account Recievables 1. week 2.	ecleved — \$10,0	00 from
7	Inventory replenished	for cost \$12,00	00
		cash	Credi+
		\$ 6,000	\$ e'oa
۱ (	wages paid at the end	d of Week (\$2,	000)

Balance Sheet WEEK 4.		
CURRENT ASSETS	CURRENT LIABILITIES	
Cash \$72,000	Acc. Payables \$6,000	
Inventory \$15,000	O	
Recievables \$16,000		
Total current auch \$ 103,000	Total \$6,000.	
FIXED ASSETS	LONG TERM DEBTS	
Building \$ 100,000	Mortgage \$75,000	
O	0 0	
Total fixed assets \$100,000	Total L.T. Debt \$75,000	
•		
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Net worth (Week 4 end) = A - L= \$203,000 - \$81,000 = \$122,000 Grow Profit = \$5,000. Week 5 Assumptions:

-> Week 4 Payables are paid from Cash account

> Inventory sold, then replenished \$17,000.

Cash Credit \$7,000

-> Week 3 Recievables are recieved (\$8,000).

Balance Sheet WEEK 3	<u>S</u>	
CURRENT ASSETS	CURRENT LIABILITIES	
Cash \$73,000	Acc. Payables \$7,000	
Inventory \$20,000	U	
Recievables \$16,000		
Total current auch \$109,000	Total \$7,000.	
FIXED ASSETS	LONG TERM DEBTS	
Building \$100,000	Mortgage \$75,000	
	U U	
Total fixed assets \$100,000	Total L.T. Debt \$75,000	
Net Worth (Week 5 end) =	- A - L	
=	\$209,000 - \$82,000	
= \$127,000		
G1705 Profit = \$5000		