Chapter 2							
COST CONCEPTS AND							
COST ALLOCATION							
Chaptor 2 SE 1							
1. ID, F, NVA, PD							
2. Neither, V, NVA, PER							
3. D, V, VA, PD							
Chapter 16, SE 2.							
Char Company							
Income Statement							
For the Year							
Sales		\$900,000					
Cost of goods sold							
Finished goods inventory, beginning	\$ 45,000						
Cost of goods manufactured	585,000						
Cost of finished goods available for sale	\$630,000						
Less finished goods inventory, ending	60,000						
Cost of goods sold		570,000					
Gross margin		\$330,000					
Operating expenses		275,000					
Operating income		\$ 55,000					

Chapter 2, SE 3.	
Materials Inventory, ending balance:	
Materials Inventory, beginning balance	\$ 23,000
Direct materials purchased	85,000
Direct materials placed into production	(<u>74,000</u>)
Materials Inventory, ending balance	<u>\$ 34,000</u>
Work in Process Inventory, ending balance:	
Work in Process Inventory, beginning balance	\$ 25,750
Direct materials placed into production	74,000
Direct labor costs	97,000
Overhead costs	35,000
Cost of goods manufactured	(_123,000)
Work in Process Inventory, ending balance	\$108,750
Finished Goods Inventory, ending balance:	
Finished Goods Inventory, beginning balance	\$ 38,000
Cost of goods manufactured	123,000
Cost of goods sold	(<u>93,375</u>)
Finished Goods Inventory, ending balance	<u>\$ 67,625</u>
Chapter 16, SE 4.	
1. Purchase order	
2. Time card	
3. Receiving report	
4. Job order cost card	
5. Materials request	
6. Sales invoice	
7. Purchase request	

Chapter 2, SE 5.								
1. O, CC								
2. DM, PC								
3. O, CC								
4. DL, PC and CC								
5. O, CC								
6. O, CC								
7. N, N								
Chapter 16, SE 6.								
Product unit cost computed:								
Direct materials	(5 4	4,500	÷	300	units)	\$15
Direct labor	(57	7,500	÷	300	units)	25
Overhead	(5 (3,600	÷	300	units)	<u>12</u>
Product unit cost	(0,	51	5,600	÷	300	units)	<u>\$52</u>
Prime costs and conversion costs per unit	СС	on	np	uted:				
				Costs		C	osts	
Direct materials				\$15			NA	
Direct labor				25			\$25	
Overhead			<u>NA</u> 12					
Totals				<u>\$40</u>			<u>\$37</u>	
Chapter 16, SE 7.								
Applied overhead								\$27,000
Less actual overhead								25,870
Overapplied								<u>\$ 1,130</u>
Since the overapplied amount is immateria	1 (I	le	SS	than	5%	of ac	tual ove	erhead), the
Cost of Goods Sold account should be dee	re	a	se	d by \$	1,1:	30 to	adjust t	he balance
to reflect actual overhead costs.								

Predetermined Overhead Rate per Service Request = Total Estimated Overhead Costs Total Estimated Service Requests = \$18,290 3,100 service requests = \$5.90 per service request napter 16, SE 9. = \$4 per direct labor hours	hapter 2, SE 8.								
Rate per Service Request Total Estimated Service Requests = \$18,290 3,100 service requests = \$5.90 per service request napter 16, SE 9.	Predetermined Overhead	_	Total E	Esti	mat	ed Over	head	Costs	
= \$18,290 3,100 service requests = \$5.90 per service request napter 16, SE 9.	Rate per Service Request		Total E	stir	nate	ed Servi	ce Re	quests	
- 3,100 service requests = \$5.90 per service request napter 16, SE 9. - Overhead Costs Applied = \$4 per direct labor hour x 1,200 direct labor hours \$4,800 -		_		\$	18,	290			
= \$5.90 per service request napter 16, SE 9.		-	3,100	sei	rvic	e reques	sts		
apter 16, SE 9. Overhead Costs Applied = \$4 per direct labor hour X <u>1,200</u> direct labor hours <u>\$4,800</u>		=	\$5.90	ре	r se	rvice red	quest		
<u>\$4,800</u>	Overhead Cos	sts	Applied	=	x	\$4 <u>1,200</u>	per (dire	direct la ct labor	bor hour hours
						<u>\$4,800</u>			

Cha	apter 2, E 1.
1.	PE
2.	C
3.	PL
4.	E

Chapter 16, E 2.

			Cost	Classification	
		Product	Variable	Value-adding or	Direct
		or Period	or Fixed	Nonvalue-adding	or Indirect
Exa	mple: Bicycle tire	Product	Variable	Value-adding	Direct
1.	Depreciation on office				
	computer	Period	Fixed	Nonvalue-adding	
2.	Labor to assemble bicycle	Product	Variable	Value-adding	Direct
3.	Labor to inspect bicycle	Product	Variable	Nonvalue-adding	Indirect
4.	Internal auditor's salary	Period	Fixed	Nonvalue-adding	
5.	Lubricant for wheels	Product	Variable	Value-adding	Indirect
Not	e: Depreciation on office co	mputer and	auditor's s	alary are not produc	t costs.
The	erefore, they would not be tra	ceable to th	e bicycles	in a traditional busi	ness
оре	eration. The two costs would	be shown o	on the incor	ne statement as sel	ling and
adr	ninistrative expenses.				
Cha	pter 16, E 3.				

- 1. RET
- 2. SER
- 3. MANF

Chapter 2, E 4.		
Padia Company		
Statement of Cost of Goods Manufact	ured	
For the Month of August		
Direct materials used		
Materials inventory, beginning	\$ 48 600	
Direct materials nurobased	φ 4 0,000 139,000	
Direct materials purchased	<u> </u>	
Cost of direct materials available for use	\$187,600	
Less materials inventory, ending	50,100	
Cost of direct materials used		\$137,500
Direct labor (3,400 hours × \$8.75)		29,750
Overhead		
Utilities	\$ 5,870	
Supervision	16,600	
Indirect materials	6,750	
Depreciation	6,200	
Insurance	1,830	
Miscellaneous	1,100	
Total overhead		38,350
Total manufacturing costs		\$205,600
Add work in process inventory, beginning		54,250
Total cost of work in process during the month		\$259,850
Less work in process inventory, ending		48,400
Cost of goods manufactured		<u>\$211,450</u>

	pto: 2, E 0.								
		Oa	k	Loble	olly	Мар	ole	Spru	ce
		Divis	ion	Divis	ion	Divis	ion	Divis	ion
Dire	ct materials used	\$ 3		\$7		\$5	(g)	\$8	
Dire	ct labor	2	(a)	6		4		4	
Ove	rhead	1		3		2		2	(j)
Tota	al manufacturing costs	\$6		\$16	(d)	\$11	(h)	\$14	
Beg	inning work in process inventory	2		7	(e)	3		2	(k)
End	ing work in process inventory	()	(b)	(<u>3</u>)		(<u>2</u>)		(<u>5</u>)	
Cos	t of goods manufactured	\$ 7		\$20		\$12		\$11	(I)
Beg	inning finished goods inventory	3		4	(f)	5		7	
End	ing finished goods inventory	()		(6)		()	(i)	(<u>9</u>)	
Cos	t of goods sold	<u>\$8</u>	(C)	<u>\$18</u>		<u>\$13</u>		<u>\$9</u>	
Cha 1.	pter 16, E 6. RET								
2.	SER								
3.	MANF								
3. 4.	RET								
3. 4. 5.	MANF RET MANF								
 3. 4. 5. 6. 	MANF RET MANF SER								
 3. 4. 5. 6. 7. 	MANF RET MANF SER SER								
 3. 4. 5. 6. 7. 8. 	MANF RET MANF SER SER MANF								

Chapter 16, E 7.

1.	\$3,000	Π	\$1,000	+	\$12,000	-	\$10,000
2.	\$155,000	Π	\$140,000	+	\$60,000	-	\$45,000
3.	\$92,000	Π	\$23,000	+	\$89,000	—	\$20,000

Chapter 2, E 8.

1. Missing data for the retail organization calculated.

Note: Items are listed in the suggested order of solution.

First Quarter:

_	Gross Margin	=	Sales	-	Cost of Goods Sold		
а.		Π	\$9	-	\$5	=	\$4
C.	Operating Expenses	=	Gross Margin	_	Operating Income		
		Π	\$4	-	\$3	=	\$1
d.	Cost of Goods Available for Sale	=	Cost of Goods Sold	+	Ending Merchandise Inventory		
		Π	\$5	+	\$5	=	\$10
b.	Net Cost of Purchases	=	Cost of Goods Available for Sale	-	Beginning Merchandise Inventory		
		Π	\$10	-	\$4	=	\$6
Sec	cond Quarter:						
e.	Sales	=	Gross Margin	+	Cost of Goods Sold		
		Π	\$4	+	\$6	=	\$10
f.	Ending Merchandise Inventory	=	Cost of Goods Available for Sale	_	Cost of Goods Sold		
		Η	\$12	-	\$6	=	\$6
g.	Beginning Merchandise Inventory	=	Cost of Goods Available for Sale	-	Net Cost of Purchases		

-

\$7

=

\$5

\$12

=

Ch	apter 2, E 8.						
Th	ird Quarter:						
h.	Beginning Merchandise Inventory	=	Cost of Goods Available for Sale	_	Net Cost of Purchases		
		Π	\$15	-	\$9	=	\$6
i	Operating Income	Η	Gross Margin	-	Operating Expenses		
1.		Η	\$5	-	\$2	=	\$3
j.	Cost of Goods Sold	=	Sales	-	Gross Margin		
		Π	\$15	-	\$5	=	\$10
Fo	urth Quarter:						
١.	Gross Margin	=	Operating Expenses	+	Operating Income		
		Π	\$4	+	\$2	=	\$6
k.	Sales	Π	Gross Margin	+	Cost of Goods Sold		
		Π	\$6	+	\$11	=	\$17
m.	Ending Merchandise Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Sold		
		II	\$15	-	\$11	=	\$4
n.	Net Cost of Purchases	=	Cost of Goods Available for Sale	-	Beginning Merchandise Inventory		
		=	\$15	-	\$5	=	\$10

Chapter 2, E 8.

2. Missing data for the manufacturing organization calculated.

Fir	st Quarter:						
с.	Sales	=	Gross Margin	+	Cost of Goods Sold		
		=	\$4	+	\$6	=	\$10
a.	Ending Finished Goods Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Sold		
		=	\$8	-	\$6	=	\$2
b.	Beginning Finished Goods Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Manufactured		
		=	\$8	-	\$5	=	\$3
Se	cond Quarter:						
f.	Gross Margin	=	Sales	-	Cost of Goods Sold		
		=	\$10	-	\$3	=	\$7
g.	Operating Expenses	=	Gross Margin	_	Operating Income		
		=	\$7	-	\$3	=	\$4
d.	Cost of Goods Available for Sale	=	Cost of Goods Sold	+	Ending Finished Goods Inventory		
		=	\$3	+	\$3	=	\$6
e.	Cost of Goods Manufactured	=	Cost of Goods Available for Sale	-	Beginning Finished Goods Inventory		
		=	\$6	-	\$2	=	\$4

Cha	apter 2, E 8.						
Th	rd Quarter:						
j.	Gross Margin	=	Operating Expenses	+	Operating Income		
		Π	\$5	+	\$1	=	\$6
k.	Sales	=	Gross Margin	+	Cost of Goods Sold		
		Π	\$6	+	\$5	=	\$11
h.	Ending Finished Goods Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Sold		
		II	\$10	-	\$5	=	\$5
i.	Cost of Goods Manufactured	=	Cost of Goods Available for Sale	-	Beginning Finished Goods Inventory		
			\$10	-	\$3	=	\$7
Fourth Quarter:							
n.	Beginning Finished Goods Inventory	=	Cost of Goods Available for Sale	_	Cost of Goods Manufactured		
		II	\$13	-	\$8	=	\$5
m.	Operating Income	Π	Gross Margin	-	Operating Expenses		
		Π	\$7	-	\$6	=	\$1
Ι.	Cost of Goods Sold	=	Sales	-	Gross Margin		
		Η	\$14	-	\$7	=	\$7

Cha	Chapter 2, E 9.					
		Memo				
Dat	e:	Today's Date				
To:		Iggy Paulo				
Fro	m:	Reza Seca				
Тор	oic:	Purpose of Source Documents				
l wo	ould l	ike to explain the reasons for adding the new system of source docu-				
me	nts to	our accounting system. Many of our music boxes are special orders,				
and	l thes	e require more expensive materials. Control over materials is thus ex-				
trer	nely i	mportant. The use of the new documents is intended to cut inventory				
los	ses a	nd ensure an orderly flow of materials.				
The	e purp	oose of each document is:				
Pur	chas	e Request				
	Prov	rides all information needed to order the correct materials and includes				
	nece	essary authorization signatures.				
Pur	chas	e Order				
	Com	municates the information on the purchase request to the vendor.				
	Help	s to guarantee ordering of the proper direct materials.				
Rec	eivin	g Report				
	Reco	ords actual items and quantities received at the receiving dock. Helps				
	to er	nsure delivery of proper kind and amount of goods.				
Mat	erials	s Request				
	Rece	ords the amount of materials used and includes necessary authoriza-				
	tion	signatures. Enhances control of materials in inventory.				
lf y	ou ha	ve any additional questions or concerns, I would be happy to discuss				
the	m wit	h you.				
Chapter 16, E 10.						
1.	Incre	ease Work in Process Inventory, decrease Materials Inventory				
2.	Deci	ease Finished Goods Inventory				
3.	Incre	ease Materials Inventory				
4.	Incre	ease Work in Process Inventory				
5.	Non	e of these (Cash and Accounts Receivable are affected)				
6.	None of these (Office Supplies and Cash are affected)					

7. None of these (Rent Expense and Cash are affected)

Chapter 2, E 11.		
1. Unit cost computed.		
	······	
	Total	Unit Cost
Cost Items	Cost	(Total ÷ 10,550)
Total direct materials costs	\$36,925	\$3.50
Total direct labor costs	24,265	2.30
Total overhead costs	34,815	3.30
Total production costs	\$96,005	<u>\$9.10</u>
I		
2. Recommendation made.		
The price for a bottle of wine should be increased to	around \$12	per bottle. The
current price barely covers the production costs. Ver	ry little is lef	t over for profit
and other operating costs, such as selling and admir	nistrative ex	penses.
3. Prime costs and conversion costs per unit comp	uted.	
	П	1
	Prime	Conversion
	Costs	Costs
Direct materials	\$3.50	NA
Direct labor	2.30	\$2.30
Overhead	NA	3.30
Totals	<u>\$5.80</u>	<u>\$5.60</u>

Chapter 2, E 12.								
Gas							\$150	
Tractor maintenance								115
Tractor depreciation (\$1,500 ÷ 12 months)								125
Labor							600	
Total costs						<u>\$990</u>		
Cost per bale = \$ 990 ÷ 3,000 bales = <u>\$0.33</u>								
Revenue per bale = \$2,400 ÷ 3,000 bales = <u>\$0.80</u>						<u>\$0.80</u>		
Green is currently covering his costs and making an adequate profit. He does not need to increase the amount he charges to his customers if he is satisfied with his								
profit for the year or if he obtains profits from other farming services. However, to								
increase his profits, he may either increase the service charge to his customers or								
reduce some of his operating expenses. This also assumes that his business is								
steady throughout the year and not seasonal or cyclical. If the tractor generates								
revenue only four mo	nth	s of the y	/ea	r, the dep	reciatio	on e	xpense allocation	n would
increase to \$375 (\$1,500 × 1/4).								

Chapter 2, E 13.

I and Z. Past years and next years predetermined overnead rates computed	1 and 2.	Past year's and next year's predetermined overhead rates computed
--	----------	---

	(1) (2)		(2)	(3)	
		Next Year's		Next Year	
	Past Year Percent		Percentage	(1 × 2)	
Indirect materials and supplies	\$ 79,200		110%	\$ 87,120	
Repairs and maintenance	14,900		110%	16,390	
Outside service contracts	17,300		110%	19,030	
Indirect labor	79,100		110%	87,010	
Factory supervision	42,900		110%	47,190	
Depreciation, machinery	85,000		112%	95,200	
Factory insurance	8,200		110%	9,020	
Property taxes	6,500		120%	7,800	
Heat, light, and power	7,700		110%	8,470	
Miscellaneous overhead	5,760		120%	6,912	
Totals	\$346,560			\$384,142	
Divided by machine hours	45,600			50,000	
Predetermined overhead rates	<u>\$ 7.600</u>	/MH		<u>\$ 7.683</u>	/MH
	•		·······		
*(45,600 + 4,400 = 50,000)					

Chapter 2, E 14.				
1. Anticipated overhead determined.				
\$916,000 × 125% = <u>\$1,145,000</u>				
2. Overhead rate computed.				
Increase in labor hours:				
75,000 hours × 120% = <u>90,000</u> hours				
Predetermined overhead rate:				
\$1,145,000 ÷ 90,000 hours = \$12.72 per labor hour				
3. Overhead applied.				
11,980 hours × \$12.72 = <u>\$152,412</u> *				
*Discrepancy due to Excel rounding.				
Chapter 16, E 15.				
1. Overhead applied to operations computed.				
89,920 hours × \$12.72 per hour = <u>\$1,143,782</u>				
2. Overapplied overhead computed.				
Overhead applied \$1 143 782				
Less actual overhead incurred <u>1,143,400</u>				
Overapplied overhead \$ 382				
3. Effect of overapplied overhead on Cost of Goods Sold determined.				
Since the overapplied overhead amount is immaterial, the Cost of Goods Sold account will be decreased to reflect actual overhead costs.				

Chapter 2, P 1.
Accounts in manufacturing and retail organizations identified.
a. The asset accounts on the balance sheet of Mills Manufacturing Company that are specifically related to manufacturing organizations include Materials Inventory; Work in Process Inventory; Finished Goods Inventory; Production Supplies; Small Tools; Factory Building; Accumulated Depreciation, Factory Building; Factory Equipment; Accumulated Depreciation, Factory Building; Factory Equipment; Accumulated Depreciation, Factory Equipment; and Patents.
b. The balance sheets of both manufacturing and retail organizations include amounts for Cash, Accounts Receivable, Accounts Payable, Insurance Premiums Payable, and Income Taxes Payable. More complex organizations of either type will usually have Land, Mortgage Payable, Common Stock, and Retained Earnings. The nature and amounts of these items will vary depending

on the resource needs of each organization.

2. Key figures calculated.

Gross Margin	=	Operating Expenses		Operating Income	
	=	\$53,670	+	\$138,130	
	=	\$191,800	\$191,800		
Cost of Goods Sold	=	Sales	-	Gross Margin	
	=	\$500,000	-	\$191,800	
	=	\$308,200			
Cost of Goods Available for Sale	=	Cost of Goods Sold		Finished Goods Inventory, Ending	
	=	\$308,200	+	\$54,800	
	=	\$363,000			
Cost of Goods Manufactured	=	Cost of Goods Available for Sale	-	Finished Goods Inventory, Beginning	
	=	\$363,000	-	\$50,900	
	=	\$312,100			
	Gross Margin Cost of Goods Sold Cost of Goods Available for Sale Cost of Goods Manufactured	Gross Margin===Cost of Goods Sold===Cost of Goods Available for Sale===Cost of Goods Manufactured===Cost of Goods Manufactured=== <td>Gross Margin=Operating Expenses=\$53,670=\$191,800Cost of Goods Sold=Sales=\$500,000=\$500,000=\$308,200Cost of Goods Available for Sale=Cost of Goods Available for Sale=\$308,200=Cost of Goods Manufactured=\$363,000==\$363,000</td> <td>Gross Margin=Operating Expenses+=\$53,670+=\$191,800-Cost of Goods Sold=Sales-=\$500,000-=\$500,000-=\$308,200-Cost of Goods Available for Sale=Cost of Goods Sold+=\$308,200+=\$308,200+Scost of Goods Manufactured=Cost of Goods Available for Sale-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-</td> <td>Gross Margin=Operating Expenses+Operating Income=\$53,670+\$138,130=\$191,800-Cost of Goods Sold=Sales-Cost of Goods Sold=\$500,000-\$191,800=\$500,000-\$191,800=\$308,200-Finished Goods Inventory, EndingCost of Goods Available for Sale=Cost of Goods Sold+Finished Goods Inventory, Ending=\$308,200+\$54,800=\$363,000-Finished Goods Inventory, EndingCost of Goods Manufactured=Cost of Goods Available for Sale-=\$363,000-\$50,900=\$363,000-\$50,900</br></br></br></td>	Gross Margin=Operating Expenses=\$53,670=\$191,800Cost of Goods Sold=Sales=\$500,000=\$500,000=\$308,200Cost of Goods Available for Sale=Cost of Goods Available for Sale=\$308,200=Cost of Goods Manufactured=\$363,000==\$363,000	Gross Margin=Operating Expenses+=\$53,670+=\$191,800-Cost of Goods Sold=Sales-=\$500,000-=\$500,000-=\$308,200-Cost of Goods Available for Sale=Cost of Goods Sold+=\$308,200+=\$308,200+Scost of Goods Manufactured=Cost of Goods Available for Sale-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-=\$363,000-	Gross Margin=Operating Expenses+Operating Income=\$53,670+\$138,130=\$191,800-Cost of Goods Sold=Sales-Cost of Goods Sold=\$500,000-\$191,800=\$500,000-\$191,800=\$308,200-Finished Goods Inventory, EndingCost of Goods Available for Sale=Cost of Goods Sold+Finished Goods

3. Manager insight: Use of inventory method discussed.

Whether Mills Manufacturing Company uses the periodic or perpetual inventory method cannot be determined from the accounts shown since the account balances are after the closing entries have been made.

Ch	apter	2, P 2.						
1 a	nd 2.	Unit cost	by (departn	nent and total unit co	st computed	l.	
De	partm	ent 60:						
	Direc	t materials	us	ed				
		\$29,440	÷	4,000	discs		\$7.36	
	Direc	t labor						
		\$6,800	÷	4,000	discs		1.70	
	Over	head						
		\$7,360	÷	4,000	discs		1.84	
	Total	unit cost,	Dep	ot. 60				\$10.90
6								
De		ent 61:		l				
	Direc	t materials	s us	ea			<u> </u>	
	\$3,920 ÷ 4,000 discs \$0.98						\$0.98	
	Direc	t labor						
	Over	\$2,560 head	÷	4,000	discs		0.64	
		\$4,800	÷	4,000	discs		1.20	
	Total	unit cost,	Dep	ot. 61	1			2.82
Тс	Total unit cost <u>\$13.7</u>					<u>\$13.72</u>		
	1						·	
3.	Mana	ger insigh	t: A	nalysis	of the Milo Company	y order.		
Se	lling r	rice						\$14.00
Ur	nit cos	t						13.72
Gr		arain nor i	ınit					\$ 0.28
	033 11				f	0.00		<u> </u>
Gr	Gross margin as a percentage of sales:0.02or2.0%					2.0%		
Th	e selli	ng price is	no	t adequ	ate. Only 2.0% of the	total selling	price rema	ains to
со	ver all	operating	exp	penses	and to yield a profit.	Managemen	t should be	e sure
to	suppl	y cost data	ı to	the Sale	es Department on a t	imely basis.	More atter	ntion
sh	ould b	e paid to t	he c	cost of I	producing the produc	ct.		

Chapter 2, P 2.

4. Prime costs and conversion costs per unit computed.

	Depa	rtment 60	Department 61		
	Prime	Prime Conversion		Conversion	
	Costs	Costs	Costs	Costs	
Direct materials	\$7.36	NA	\$0.98	NA	
Direct labor	1.70	\$1.70	0.64	\$0.64	
Overhead	NA	1.84	NA	1.20	
Totals	\$9.06	<u>\$3.54</u>	\$1.62	<u>\$1.84</u>	

Chapter 2, P 3.

1. Predetermined overhead rate computed.

Natural Cos	Natural Cosmetics Company						
Overhead Rate C	Computati	on Schedule	9				
For	this Year						
		(1)	(2)	(3)			
			Projected	Projection			
			Percentage	This Year			
Overhead Cost Item		Last Year	Increase	(1 × 2)			
Indirect labor		\$ 23,530	130%	\$ 30,589			
Employee benefits		28,600	130%	37,180			
Manufacturing supervision	18,480		110%	20,328			
Utilities		14,490	140%	20,286			
Factory insurance		7,800	120%	9,360			
Janitorial services		12,100	110%	13,310			
Depreciation, factory and machinery		21,300	120%	25,560			
Miscellaneous overhead		7,475	130%	9,718 *			
Total overhead		<u>\$133,775</u>		<u>\$166,331</u>			
Predetermined overhead rate for this year:							
\$166,331 ÷ 68,832 machine hours = <u>\$2.416</u> per machine hour							
*Rounded							

Chapter 2, P 3.

2.	Amount of applied	l overhead	determined
----	-------------------	------------	------------

	Machine	Predetermined	Overhead
Job No.	Hours	Overhead Rate	Applied*
2214	12,300	\$2.416	\$ 29,717
2215	14,200	\$2.416	34,307
2216	9,800	\$2.416	23,677
2217	13,600	\$2.416 **	32,858
2218	11,300	\$2.416	27,301
2219	8,100	\$2.416	19,570
Totals	69,300		\$167,429

* Rounded.

** Discrepancy due to Excel rounding.

3. Computation and adjustment of overapplied overhead.

Overhead applied	\$167,429
Actual overhead incurred this year	165,845
Overapplied overhead	<u>\$ 1,584</u>
Decrease Cost of Goods Sold by \$1.584.	

Chap	ter	2, P 4.					
1.	I. Total costs assigned to the Grater order.						
1		·			11		
				Traditional			
				Costing			
				Method			
Direct materials cost				\$36,750.00			
Cost	Cost of purchased parts			21,300.00			
Direc	et la	bor co	st				
	\$	15.25					
	×	220	DLH	3,355.00			
Over	hea	nd cost	:				
Tra	adi	tional o	costing method				
	\$	3,355					
	×	270%		9,058.50			
Total	со	sts as	signed to the Grater orde	r <u>\$70,463.50</u>			

Chapter 2, P 4.

2. Manager insight: Cost difference discussed.

The difference in the Grater order is unknown until the ABC method is applied.

There is additional cost in implementing the ABC method to replace a traditional costing method. Activity-based costing does not guarantee cost reduction for every product. ABC improves cost traceability and so often identifies products that have been either over- or undercosted by a traditional product costing system. Because the total overhead represented by the activity pools must be assigned to the same number of products, the decrease in the costs assigned to another product, will be offset by an increase in costs assigned to another product.

Chapter 2, P 6.						
Dillo Vineyards						
Statement of Cost of Goods Man	ufactured					
For the Year Ended October	r 31					
Direct materials used						
Materials inventory, beginning	\$2,156,200					
Direct materials purchased	6,750,000					
Cost of direct materials available for use	\$8,906,200					
Less materials inventory, ending	1,803,800					
Cost of direct materials used		\$ 7,102,400				
Direct labor		1,168,500*				
Overhead	<u> </u>					
Depreciation, plant and equipment	\$ 685,600					
Indirect labor	207,300					
Property tax, plant and equipment	94,200					
Plant maintenance	83,700					
Small tools	42,400					
Utilities	96,500					
Employee benefits	76,100					
Total overhead		1,285,800				
Total manufacturing costs		\$ 9,556,700				
Add work in process inventory, beginning		3,371,000				
Total cost of work in process during the year		\$12,927,700				
Less work in process inventory, ending		2,764,500				
Cost of goods manufactured		<u>\$10,163,200</u>				
* 142,500 hours × \$8.20 / hour = \$1,168,500						

Chapter 2, P 6.

1. Cost per patient day computed.

Equipment usage						\$ 179
Doctors' care	(2	×	\$360)	720
Special nursing care	(4	×	\$85)	340
Regular nursing care	(24	×	\$ 28)	672
Medications	237					
Medical supplies	134					
Room rental	350					
Food and services	140					
Total cost per patient	t day					<u>\$2,772</u>
				*	*	-

2 and 3. Billing per patient day computed.

		2.	2. Normal			3. Industry Average		
	Cost		Billin	g		B illing Approach		
Equipment usage	\$ 179	×	1.40	\$ 251	×	1.30	\$ 233	
Doctors' care	720	×	1.40	1,008	×	1.50	1,080	
Special nursing care	340	×	1.40	476	×	1.40	476	
Regular nursing care	672	×	1.40	941	×	1.50	1,008	
Medications	237	×	1.40	332	×	1.50	356	
Medical supplies	134	×	1.40	188	×	1.50	201	
Room rental	350	×	1.40	490	×	1.30	455	
Food and services	140	×	1.40	196	×	1.25	175	
Totals	<u>\$2,772</u>			\$3,882			\$3,984	

*Rounded.

4. Billing procedure recommended.

On the surface, the new approach seems to yield more revenue. However, the rates used to compute the new cost per patient day were industry averages. They may not be representative of Municipal Hospital's immediate competition. Before adopting the new rate, the controller should compare it to rates charged by other hospitals in the area.

Chapter 2, P 7.

1.	Predetermined overhead rate computed.
----	---------------------------------------

Lund Products Inc								
Overhead Rate Computation Schedule								
For this Year								
	(1)	(2)	(3)					
		Projected	Projection					
		Percentage	for this year					
Overhead Cost Item	Last Year	Increase	(1× 2)					
Indirect materials	\$ 57,850	130%	\$ 75,205					
Indirect labor	25,440	120%	30,528					
Supervision	41,580	110%	45,738					
Utilities	11,280	120%	13,536					
Labor-related costs	9,020	110%	9,922					
Depreciation, factory	10,780	110%	11,858					
Depreciation, machinery	27,240	120%	32,688					
Property taxes	2,880	120%	3,456					
Insurance	1,920	120%	2,304					
Miscellaneous overhead	4,840	110%	5,324					
Total overhead	<u>\$192,830</u>		\$230,559					
Predetermined overhead rate for this year:								
\$230,559 ÷ 45,980 machine hours = <u>\$5.014</u> * per machine hour								
*Rounded.								

Chapter 2, P 7.

2. Amount of applied overhead determined.

	Actual			Overhead	
Job No.	Machine Hours	×	Rate	Applied*	
H-142	7,840		\$5.014	\$ 39,310	
H–164	5,260		\$5.014	26,374	
H–175	8,100		\$5.014	40,613	
H–201	10,680		\$5.014	53,550	
H–218	12,310		\$5.014	61,722	
H–304	2,460		\$5.014	12,334	
Totals	46,650			<u>\$233,903</u>	

*Rounded.

3. Computation and adjustment of underapplied overhead.

Actual overhead incurred this year	\$234,485
Overhead applied	233,903
Underapplied overhead	<u>\$ 582</u>

Increase Cost of Goods Sold by \$582.

4. Overhead rate discussed.

The overhead rate was computed at the beginning of the year. During the year, as products were produced, the overhead rate was used to apply overhead to production. At year end the Overhead account balance was computed, determined to be underapplied, and closed to the Cost of Goods Sold account so that it would reflect the actual overhead costs of the period.

Chapte	r 2, P 8.						
1.	. Total costs assigned to the Kent order.						
			П				
			Traditional				
			Costing				
			Method				
Cost of	ⁱ direct n	naterials	\$17,450.00				
Cost of	⁻ purcha	sed parts	14,800.00				
Direct labor costs		sts					
	\$16.50						
×	140	hours	2,310.00				
Overhe	ad cost:						
Trad	itional c	osting method					
\$2,310							
×	240%		5,544.00				
Total c	osts ass	igned to the Kent or	der <u>\$40,104.00</u>				

Chapter 2, P 8.

2. Manager insight: Cost differences discussed.

The change to activity-based costing may increase or decrease the costs assigned to this order. Activity-based costing does not guarantee cost reduction

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for every product, but it does improve cost traceability. It often identifies

products that have been either under-costed or overcosted by a traditional

product costing system. Because the total overhead represented by

the activity pools must be allocated to the same number of products,

the decrease in costs assigned to one product will be offset by an

increase in costs assigned to another product.

Chapter 2, C 1.

Note to the instructor: This assignment should produce many differen tions of processes and lists of costs. Students are very familiar with far restaurants, but few will have observed such operations closely or thou about the costs incurred by restaurants.

A few of the many examples students will identify are shown below. Ex bates over the proper classification of many items.

	Traceability	Cost	
Sample Costs	to Product	Behavior	Value Attribute
Bread	Direct	Variable	Value-adding
Meat	Direct	Variable	Value-adding
Condiments			
(mustard, catsup)	Indirect	Variable	Value-adding
Depreciation of			
cooking equipment	Indirect	Fixed	Value-adding
Cook's wages	Direct	Variable	Value-adding
Counter clerks' pay	Indirect	Variable	Value-adding
Janitorial wages	Indirect	Fixed	Value-adding
Manager's salary	Neither	Fixed	Nonvalue-adding
Insurance	Neither	Fixed	Nonvalue-adding
Property taxes	Neither	Fixed	Nonvalue-adding
Depreciation of			
playground			
equipment	Neither	Fixed	Value-adding

1.	Ratios computed.					
_	Detion of each of direct metaricle wood, direct labor, and total events ad to take					
а.	manufacturing costs					
		This Year		Last Voar		
		Amount			Datia	
	Cost of direct materials used	\$ 983,860	48.3%	\$ 962,260	48.2%	
		571,410	28.0%	579,720	29.1%	
	Total overhead	482,880	<u>23.7</u> %	452,110	<u>22.1</u> %	
	Total manufacturing costs	<u>\$2,038,150</u>	<u>100.0</u> %	<u>\$1,994,090</u>	<u>100.0</u> %	
	*Adjusted for total of percentages					
	Aujusted for total of percentages).			
b.	Ratios of sales salaries and comn	nission expense,	advertisin	g expense, ot	her	
	selling expenses, administrative e	expenses, and to	tal selling a	and administr	ative	
	expenses to sales.					
		This Y	This Year		′ear	
		Amount	Ratio	Amount	Ratio	
	Sales salaries and commission					
	expense	\$ 394,840	13.4%	\$ 329,480	10.6%	
	expense Advertising expense	\$ 394,840 116,110	13.4% 3.9%	\$ 329,480 194,290	10.6° 6.3°	
	expense Advertising expense Other selling expenses	\$ 394,840 116,110 82.680	13.4% 3.9% 2.8%	\$ 329,480 194,290 72,930	10.6% 6.3% 2.4%	
	expense Advertising expense Other selling expenses Administrative expenses	\$ 394,840 116,110 82,680 242,600	13.4% 3.9% 2.8% 8.2%	\$ 329,480 194,290 72,930 195,530	10.6% 6.3% 2.4% 6.3%	
	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative	\$ 394,840 116,110 82,680 242,600	13.4% 3.9% 2.8% <u>8.2</u> %	\$ 329,480 194,290 72,930 <u>195,530</u>	10.6% 6.3% 2.4% <u>6.3</u> %	
	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses	\$ 394,840 116,110 82,680 242,600 \$ 836,230	13.4% 3.9% 2.8% <u>8.2</u> % 28.4%*	\$ 329,480 194,290 72,930 <u>195,530</u> * \$ 792,230	10.69 6.39 2.49 <u>6.39</u> 25.69	
	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2.942.960	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* 100.0%	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> \$3.096,220	10.69 6.39 <u>2.49</u> <u>6.39</u> <u>25.69</u> 100.09	
	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u>	10.69 6.39 <u>2.49</u> <u>6.39</u> <u>25.69</u> <u>100.09</u>	
Ď	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding.	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u>	10.69 6.39 <u>6.39</u> <u>25.69</u> <u>100.09</u>	
Ď	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u>	10.6% 6.3% 2.4% <u>6.3</u> % <u>25.6%</u> <u>100.0</u> %	
°D	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net interval	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960 \$ 2,942,960 \$ 2,942,960	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u>	10.6% 6.3% 2.4% <u>6.3</u> % <u>25.6%</u> <u>100.0%</u>	
D C.	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net intervent	\$ 394,840 116,110 82,680 242,600 <u>\$ 836,230</u> <u>\$2,942,960</u> come to sales. This Y	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> % <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u> Last Y	10.6% 6.3% 2.4% <u>6.3</u> % <u>25.6%</u> <u>100.0%</u>	
°D C.	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net in	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960 \$ come to sales. This Y Amount	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> %	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u> Last Y Amount	10.6% 6.3% <u>2.4%</u> <u>6.3</u> % <u>25.6%</u> <u>100.0%</u> /ear Ratio	
D C.	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net in Gross margin	\$ 394,840 116,110 82,680 242,600 \$ 836,230 \$2,942,960 come to sales. This Y Amount \$ 946,675	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> % <u>100.0</u> % /ear Ratio 32.2%	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u> <u>\$3,096,220</u> Last Y Amount \$1,056,550	10.69 6.39 2.49 <u>6.39</u> <u>25.69</u> <u>100.09</u> 7ear Ratio 34.19	
۳D С.	expense Advertising expense Other selling expenses Administrative expenses Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net in Gross margin Net income	\$ 394,840 116,110 82,680 242,600 <u>\$ 836,230</u> <u>\$2,942,960</u> come to sales. This Y Amount \$ 946,675 37,148	13.4% 3.9% 2.8% <u>8.2</u> % <u>28.4</u> %* <u>100.0</u> % rear Ratio 32.2% 1.3%	\$ 329,480 194,290 72,930 <u>195,530</u> * <u>\$ 792,230</u> <u>\$3,096,220</u> Last Y Amount \$1,056,550 119,919	10.69 6.39 <u>6.39</u> <u>25.69</u> <u>100.09</u> 7ear Ratio 34.19 3.99	

Chapter 2, C 2. 2. Comments on ratios. a. Total manufacturing costs increased from \$1,994,090 last year to \$2,038,150 this year. As a percentage of total manufacturing costs, total overhead costs increased while the cost of direct materials remained constant. Direct labor decreased. However, overall, total manufacturing costs changed little between years. Since sales declined from last year to this year, efforts should be made to increase sales and control overhead costs. b. Total selling and administrative expenses increased from \$792,230 last year to \$836,230 this year while sales decreased. As a percentage of sales, sales salaries and commission expense and administrative expenses increased and advertising expense decreased. Each account should be analyzed to determine the causes of the changes. c. Gross margin decreased from 34.1 percent to 32.2 percent because of the increases in total manufacturing costs in the face of declining sales. Total selling and administrative expenses also increased as a percentage of sales, from 25.6 percent to 28.4 percent. Although the company spent more for both selling and administrative expenses, sales still declined. The cost-effectiveness of those expenditures should be evaluated. Because inflation is evident in the increase in costs, management should review the company's pricing structure. Another possibility is that the volume of unit sales changed little between years, but the selling price per unit dropped significantly. Therefore, the decline in gross margin from 34.1 percent last year to 32.2 percent this year probably resulted from a decline in unit selling price because unit cost appeared to change little. 3. Other factors and ratios suggested. As mentioned in part 2, there may be changes in the volume and unit selling price of units sold per period. Also, given that income has been declining for several years, perhaps ratios should be computed for a five-year period. Long-run trends may reveal fundamental changes in the nature of the business that may require action more drastic than just controlling costs. For example, there may be funda-

mental changes in unit selling price and the costs of direct materials, the cost of direct labor, or the sales potential of the company's products.

Other ratios that might be examined are inventory turnover ratios, ratios of individual overhead costs to direct labor hours and to total overhead costs, ratios of selling expenses to sales, and computations of percentage increases in each overhead cost and operating expense.

Ch	Chapter 2, C 3.			
1.	a. Information about the gardening activities of your department would in-			
	clude the cost of supplies, labor, and depreciation and the maintenance			
		costs for equipment for those activities only.		
	b.	This information is relevant because it can help in making a variety of deci-		
		sions about the department. In this case, the information used in your re-		
		port will help in making a decision about the future operations of your de-		
		partment. The information could also help you to identify areas	of waste,	
		to budget next year's activities, or to evaluate manager and employee		
		performance.		
	c.	Most of this information can be obtained from the Accounting D	Department.	
		You may also keep daily schedules and records of activities per	rformed by	
		specific employees. This nonfinancial information could help ye	ou to calcu-	
		late the total costs for these activities. Human Resources has ir	nformation	
		about your employees, too.		
	d.	You would need to ask the president when she would like your	report and	
		obtain the information in time to meet her deadline.		
2.	The president will probably be satisfied with a general cost report showing		showing	
	total costs for each expense item. The following report and cost items are		ems are	
	su	suggested.		
	Latabour Grounda Maintananaa Danartmant			
		Cost Report for Gardening Activities		
		For the Year Ended December 31		
	Su	pplies used	\$xxx	
	Ga	rdening labor	XXX	
	Ga	rdening tools	XXX	
	De	preciation expense, garden equipment	XXX	
	Ма	intenance expense, garden equipment	xxx	
	Sc	heduling and other administrative labor expense	<u></u>	
	To	tal costs for gardening activities	<u>\$xxx</u>	

Cha	apte	er 2, C 3.	
	lf y	ou were asked to analyze your department's costs in order to reduce waste,	
	you could prepare more detailed reports. The department's total costs could		
	be	split into smaller groups of costs. For example, you could separate the	
	costs by areas worked (buildings, grounds, entrances, and recreational facili-		
	ties	s) to find the costs associated with maintaining each area. Or you could	
	separate the costs by activity (gardening and upkeep of land improvements)		
	to determine the costs associated with performing each activity. The format of		
	the	se reports would be different from the one above. You would provide a	
	col	umn of costs for each area or activity and rows for different groupings of	
	exp	penses. This additional detail would help you identify problem areas and	
	waste more easily.		
3.	Maintenance Expense—Garden Equipment would be		
	a.	A direct cost to the Grounds Maintenance Department.	
	b.	A period cost to the company.	
	c.	A variable cost based on the use of the equipment.	
	d.	A nonvalue-adding activity, because it does not directly add value to the	
		company's business of providing insurance services. (<i>Note:</i> Students may	
		argue that it adds value indirectly because it provides pleasing views that	
		improve employee morale, which adds value to the service.)	
	e.	An actual cost.	

Chapter 2, C 4.

1. Statement of cost of goods manufactured and incom	e statement pro	epared.	
H & W Pharmaceuticals Corporation			
Statement of Cost of Goods Manufactured			
For the Month Ended April 30			
Cost of direct materials used*		\$ 642,900	
Direct labor		160,000	
Overhead		303,500	
Total manufacturing costs		\$1,106,400	
Add work in process inventory, beginning		138,800	
Total cost of work in process during the month		\$1,245,200	
Less work in process inventory, ending		127,200	
Cost of goods manufactured		<u>\$1,118,000</u>	
*Cost of direct materials used = \$258,400 + \$612,0	600 – \$228,	100	
H & W Pharmaceuticals Corpora	tion		
Income Statement			
For the Month Ended April 30			
Sales		\$2,188,400	
Cost of goods sold			
Finished goods inventory, beginning	\$ 111,700		
Cost of goods manufactured	1,118,000		
Cost of finished goods available for sale	\$1,229,700		
Less finished goods inventory, ending	114,100		
Cost of goods sold		1,115,600	
Gross margin		\$1,072,800	
Operating expenses			
General and administrative expenses		362,000	
Operating income <u>\$ 710,800</u>			

Cha	oter 2, C 4.			
2.	The total manufacturing costs are the costs associated with production activ-			
	ties for the month. Some of those costs will attach to units completed during			
	he month. The remainder will attach to units still in the production process			
	and will be summarized in the ending balance of the Work in Process Inven-			
	ory account at April 30.			
	The cost of goods manufactured is the total of all manufacturing costs asso-			
ciated with completed units of product. It includes some of the total r				
	facturing costs for April, as well as costs associated with production started			
	in an earlier period but finished in the current period. The costs associated			
	with production in an earlier period are reflected in the Work in Process In-			
	ventory account on March 31 and are included in cost of goods manufactured			
	or April because the units were completed in April.			
3.	f you want to know the profitability of a product line, then you must obtain the			
	ollowing information for <i>that</i> line:			
	a. Direct materials: Quantity of materials used, materials price			
	D. Direct labor: Direct labor hours worked, direct labor wage rate			
	c. Overhead costs associated specifically with the production of each prod-			
	uct line			
	d. Other costs that may be directly traceable to the product: special shipping,			
	storing, and moving costs; import duties, tariffs, and taxes; and advertising			
	and sales costs			
4.	a. Product cost			
	p. Period cost			
	c. Product cost			
	A. Product cost			
	e. Period cost			

Chapter 2, C 5.

At issue is Lake Weir Power Plant's responsibility to a group of individuals and communities that could be negatively affected by the improper disposal of radioactive waste. Improper disposal could harm employees, members of the commuity, members of society, and investors in the plant.

Lake Weir must be aware of any EPA regulations that could affect its operations. In this case, the EPA's position is that a company is responsible for any waste it creates. The responsibility extends to the disposal of the waste and covers the life of the waste, which can be unlimited. If damages or problems arise because of inappropriate disposal, Lake Weir will be held liable. Therefore, Lake Weir Power Plant must monitor Willis's disposal of the waste. Site inspection, evaluation of complaints noted in public records, and assessment of Willis's stability are important controls over improper disposal.

Sundeep cannot take Alton's advice to ignore the waste disposal costs. Besides monitoring the condition of the waste at the disposal site, Sundeep must record the full cost of the waste as a cost of the product. Normally the cost of waste disposal would be a reimbursable cost included in the rate base calculation that would benefit shareholders by increasing profits. This includes the process costs associated with the creation of the waste and the disposal costs of the waste. The ongoing monitoring of the waste disposal plant should also be included as a cost of waste disposal.

Chapter 2, C 6.

1.-4. The answers to this case will vary depending upon the management decisions each cookie company makes. Student groups, as a minimum, should supply all the required information.

5. Student groups should answer these questions with supporting reasons.