Managerial Accounting 9th Edition Crosson Solutions Manual

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Ch	apter 2		
CO	OST CONCEPTS AND		
CO	OST ALLOCATION		
Chap	pter 2, SE 1.		
1. II	D, F, NVA, PD		
2. N	Neither, V, NVA, PER		
	D, V, VA, PD		
Chap	pter 16, SE 2.		
	Char Company		
	Income Statement		
	For the Year		Π
Sale	es		\$900,000
Cost	t of goods sold		
F	Finished goods inventory, beginning	\$ 45,000	
C	Cost of goods manufactured	585,000	
C	Cost of finished goods available for sale	\$630,000	
L	_ess finished goods inventory, ending	60,000	
C	Cost of goods sold		570,000
Gros	ss margin		\$330,000
Ope	rating expenses		275,000
			\$ 55,000

Ма	aterials 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>
Wo	ork 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
Fir	nished 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>
	apter 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	

Ch	apter 2, SE 5.								
1.	0, CC								
2.	DM, PC								
3.	O, CC								
4.	DL, PC and CC								
5.	0, CC								
6.	0, CC								
7.	N, N								
Ch	apter 16, SE 6.								
Pro	oduct unit cost computed:								
	Direct materials	(\$	4,	500	÷	300	units)	\$15
	Direct labor	(\$	7,	500	÷	300	units)	25
	Overhead	(\$	3,	600	÷	300	units)	<u> 12 </u>
	Product unit cost	(\$1	5,	600	÷	300	units)	<u>\$52</u>
<u> </u>	me costs and conversion costs per unit			Ρ	rime osts			version costs	
Dir	ect materials	+			615			NA	
	ect labor			•	25			\$25	
	erhead				NA			φ <u>2</u> 3 12	
	tals			_	§40			\$37	
10				-				<u> </u>	
Ch	apter 16, SE 7.								
	apter 16, SE 7. plied overhead								\$27,000
Ар	• •								\$27,000
Ap Le:	plied overhead								
Ap Le: Ov	plied overhead ss actual overhead	(es	st	han (5%	of ac	tual ove	<u>25,870</u> <u>\$ 1,130</u>
Ap Le: Ov Sir	plied overhead ss actual overhead erapplied	-							25,870 <u>\$ 1,130</u> rhead), the

Rate per Service RequestTotal Estimated Service Requests= $$18,290$ $3,100$ service requests=\$5.90per service requestopter 16, SE 9.Verhead Costs Applied=\$4per direct labor hoursx1,200direct labor hours	Rate per Service Request Total Estimated Service Requests = \$18,290 3,100 service requests = \$5.90 per service request hapter 16, SE 9. Overhead Costs Applied = \$4 per direct labor hore	Predetermined Overhead	=	Total E	Esti	ma	ted Over	head Costs	
= 3,100 service requests = \$5.90 per service request apter 16, SE 9.	= 3,100 service requests = \$5.90 per service request mapter 16, SE 9.	Rate per Service Request		Total E	stir	nat	ed Servio	ce Requests	
3,100 service requests = \$5.90 per service request opter 16, SE 9.	3,100 service requests = \$5.90 per service request napter 16, SE 9.		_		\$	18,	290		
opter 16, SE 9. Overhead Costs Applied = \$4 per direct labor hou x <u>1,200</u> direct labor hours	apter 16, SE 9. Overhead Costs Applied = \$4 per direct labor hours x <u>1,200</u> direct labor hours			3,100	sei	rvic	e reques	sts	
Overhead Costs Applied=\$4per direct labor hourx1,200direct labor hours	Overhead Costs Applied = \$4 per direct labor hours x 1,200 direct labor hours		=	\$5.90	pe	r se	rvice rec	quest	
Overhead Costs Applied=\$4per direct labor hourx1,200direct labor hours	Overhead Costs Applied=\$4per direct labor hoursx1,200direct labor hours	ntor 16 SE 0							
x <u>1,200</u> direct labor hours	x <u>1,200</u> direct labor hours	apter 16, SE 9.							
		Overhead Cos	sts	Applied	=		\$4	per direct lab	or hou
\$4,800	<u>\$4,800</u>					Х	1,200	direct labor h	nours
<u>+ 1000</u>							<u>\$4,800</u>		

Cha	apter 2, E 1.
1.	PE
2.	C
3.	PL
4.	E
<u> </u>	<u>II</u>

Chapter 16, E 2.

			Cost	Classification	
		Product	Variable	Value-adding or	Direct
		or Period	or Fixed	Nonvalue-adding	or Indirect
Exa	ample: 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
	te: Depreciation on office co erefore, they would not be tra	•		•	
оре	eration. The two costs would	be shown o	on the incor	ne statement as sel	ling and
adr	ninistrative expenses.				
<u> </u>	-				
Cha	pter 16, E 3.				

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

Chapter 2, E 4.		
Radio Company		
Statement of Cost of Goods Manufac	ctured	
For the Month of August		n
Direct materials used		
Materials inventory, beginning	\$ 48,600	
Direct materials purchased	139,000	
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		\$211,450

	apter 2, E 5.									
		0	ak		Loble	olly	Мар	ole	Spr	uce
		Div	isio	n	Divis	ion	Divis	ion	Divi	sion
Di	rect materials used	\$ 3	3		\$7		\$5	(g)	\$8	
Di	rect labor	2	2 (8	a)	6		4		4	
O٧	verhead	1	-		3		2		2	(j)
То	tal manufacturing costs	\$ 6	5		\$16	(d)	\$11	(h)	\$14	
Be	ginning work in process inventory	2	2		7	(e)	3		2	(k)
En	ding work in process inventory	(1) (I	b)	(3)		()		(5)
Co	st of goods manufactured	\$ 7	,		\$20		\$12		\$11	(I)
Be	ginning finished goods inventory	3	3		4	(f)	5		7	
En	ding finished goods inventory	(2)		(6)		((i)	(9)
Co	st of goods sold	<u>\$</u> 8	<u>}</u> ((C)	<u>\$18</u>		<u>\$13</u>		<u>\$</u> 9	
Ch	apter 16, E 6.									
1.	RET									
2.	SER									
3.	MANF									
4.	RET									
5.	MANF									
6.	SER									
7.	SER									
8.	MANF									
9.	RET									

Chapter 16, E 7.

1.	\$3,000	=	\$1,000	+	\$12,000	-	\$10,000
2.	\$155,000	=	\$140,000	+	\$60,000	-	\$45,000
3.	\$92,000	=	\$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:

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

-

\$7

=

\$5

\$12

=

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

Ihi	ird Quarter:	T				1		
j.	Gross Margin =		Gross Margin = Operating Expenses		+	Operating Income		
		=	\$5	+	\$1	=	\$6	
k.	Sales	=	Gross Margin	+	Cost of Goods Sold			
		=	\$6	+	\$5	=	\$11	
h.	Ending Finished Goods Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Sold			
-		=	\$10	-	\$5	=	\$5	
i.	Cost of Goods Manufactured	=	Cost of Goods Available for Sale	-	Beginning Finished Goods Inventory			
-		=	\$10	-	\$3	=	\$7	
Foi	urth Quarter:							
n.	Beginning Finished Goods Inventory	=	Cost of Goods Available for Sale	-	Cost of Goods Manufactured			
-		=	\$13	-	\$8	=	\$5	
m.	Operating Income	=	Gross Margin	-	Operating Expenses			
		=	\$7	-	\$6	=	\$1	
Ι.	Cost of Goods Sold	=	Sales	-	Gross Margin			
·		=	\$14	_	\$7	=	\$7	

	Memo
Date:	Today's Date
To:	Iggy Paulo
From:	Reza Seca
Topic:	Purpose of Source Documents
would	like to explain the reasons for adding the new system of source docu-
ments	o our accounting system. Many of our music boxes are special orders,
and the	se require more expensive materials. Control over materials is thus ex-
tremely	important. The use of the new documents is intended to cut inventory
losses	and ensure an orderly flow of materials.
The pu	rpose of each document is:
Purcha	se Request
Pro	ovides all information needed to order the correct materials and includes
neo	cessary authorization signatures.
Purcha	se Order
Со	mmunicates the information on the purchase request to the vendor.
He	ps to guarantee ordering of the proper direct materials.
Receivi	ng Report
Re	cords actual items and quantities received at the receiving dock. Helps
to	ensure delivery of proper kind and amount of goods.
Materia	Is Request
Re	cords the amount of materials used and includes necessary authoriza-
tio	n signatures. Enhances control of materials in inventory.
lf you h	ave any additional questions or concerns, I would be happy to discuss
them w	ith you.
Chapte	r 16, E 10.
	rease Work in Process Inventory, decrease Materials Inventory
	crease Finished Goods Inventory
	rease Materials Inventory
	rease Work in Process Inventory
	ne of these (Cash and Accounts Receivable are affected)
6. No	ne of these (Office Supplies and Cash are affected)
— II	

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	<u>\$96,005</u>	<u>\$9.10</u>
The price for a bottle of wine should be increased t current price barely covers the production costs. V and other operating costs, such as selling and adm	ery little is lef	t over for profit
3. Prime costs and conversion costs per unit com	puted.	
	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		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 conneed to increase the a		•					• •	
profit for the year or i				•				
increase his profits, h			•				-	
reduce some of his o	per	ating exp	ens	ses. This	also as	sur	nes that his busir	ness is
steady throughout the	e ye	ear and n	ot s	seasonal	or cycl	ical	If the tractor gen	erates
revenue only four mo	nth	s of the y	/ea	r, the dep	reciatio	on e	xpense allocation	n would
increase to \$375 (\$1,5	500	× 1/4).						

Chapter 2, E 13.

	(1)		(2)	(3)	
			Next Year's	Next Year	
	Past Ye	ar	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		\$ 7.683	/MH
*(45,600 + 4,400 = 50,000)	I	<u>II</u>	1	J

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> *	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 incurred1,143,400								
Overapplied overhead	<u>\$ 382</u>							
3. Effect of overapplied overhead on Cost of Goods Sold determined.								
Since the overapplied overhead amount is immaterial, the Cost o account will be decreased to reflect actual overhead costs.	Since the overapplied overhead amount is immaterial, the Cost of Goods Sold							

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 Ma	rgin =	Operating Expenses	+	Operating Income
3.	=	\$53,670	+	\$138,130
	=	\$191,800		
Goods S	st of Sold =	Sales	-	Gross Margin
b	=	\$500,000	-	\$191,800
	=	\$308,200		
Cost of Go Available for S	=	Cost of Goods Sold	+	Finished Goods Inventory, Ending
.	=	\$308,200	+	\$54,800
	=	\$363,000		
Cost of Go Manufactu		Cost of Goods Available for Sale	-	Finished Goods Inventory, Beginning
d	=	\$363,000	-	\$50,900
	=	\$312,100		

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.

1 and 2. Unit cost by department and total unit	cost computed.		
Department 60:			
Direct materials used			
\$29,440 ÷ 4,000 discs		\$7.36	
Direct labor			
\$6,800 ÷ 4,000 discs		1.70	
Overhead			
\$7,360 ÷ 4,000 discs		1.84	
Total unit cost, Dept. 60			\$10.90
Department 61:			
Direct materials used			
\$3,920 ÷ 4,000 discs		\$0.98	
Direct labor			
\$2,560 ÷ 4,000 discs		0.64	
Overhead			
\$4,800 ÷ 4,000 discs		1.20	
Total unit cost, Dept. 61			2.82
Total unit cost			\$13.72
8. Manager insight: Analysis of the Milo Compa	any order.		
Selling price			\$14.00
Unit cost			13.72
Gross margin per unit			\$ 0.28
Gross margin as a percentage of sales:	0.02	or	2.0%
The selling price is not adequate. Only 2.0% of t	he total selling	orice rem	ains to
cover all operating expenses and to yield a prof	. .		
to supply cost data to the Sales Department on	-		
should be paid to the cost of producing the prod	-		

Chapter 2, P 2.

4. Prime costs and conversion costs per unit computed.

	Depar	tment 60	Department 61		
	PrimeConversionCostsCosts		Prime	Conversion	
			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	\$3.54	\$1.62	<u>\$1.84</u>	

Chapter 2, P 3.

1. Predetermined overhead rate computed.

Natural Cosme	tics Compa	ny		
Overhead Rate Com		hedule		
For this	s Year			
		(1)	(2)	(3)
			Projected	Projection
			Percentage	This Year
Overhead Cost Item	Las	t Year	Increase	(1 × 2)
Indirect labor	\$ 2	3,530	130%	\$ 30,589
Employee benefits	2	28,600 130%		37,180
Manufacturing supervision	18,480 110%	110%	20,328	
Utilities	1	4,490	140%	20,286
Factory insurance		7,800	120%	9,360
Janitorial services	1	2,100	110%	13,310
Depreciation, factory and machinery	2	1,300	120%	25,560
Miscellaneous overhead		7,475	130%	9,718 *
Total overhead	<u>\$13</u>	3,775		<u>\$166,331</u>
Predetermined overhead rate for this year:				
\$166,331 ÷ 68,832 machine hours =	<u>\$2.416</u> p	er mac	hine hour	
*Rounded.				

Chapter 2, P 3.

	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.	

Cł	naptei	r 2, P 4.					
Total costs assigned to the Grater order.							
				Traditional			
				Costing			
				Method			
Di	i rect r	naterial	s cost	\$36,750.00			
С	ost of	purcha	sed parts	21,300.00			
Di	irect l	abor co	st				
		\$15.25					
	×	220	DLH	3,355.00			
0	verhe	ad cost					
	Trad	itional o	costing method				
		\$3,355					
	×	270%		9,058.50			
Тс	otal co	osts as	signed to the Grater order	<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.

Dillo Vineyards		
Statement of Cost of Goods	Manufactured	
For the Year Ended Oct	tober 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		
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		\$10,163,200

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>
				*	*	11

2 and 3. Billing per patient day computed.

		2. [*] Normal			3.	Industry Average	
	Cost		Billing			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	\$2,772			\$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 Produ	cts, Inc.		
	Ove	erhead	Rate Comp	utation Sche	dule	
			For this `	Year		
				(1)	(2)	(3)
					Projected	Projection
					Percentage	for this year
Overhead Cost I	tem			Last Year	Increase	(1× 2)
Indirect material	S			\$ 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 co	sts			9,020	110%	9,922
Depreciation, fac	ctory			10,780	110%	11,858
Depreciation, ma	achinery			27,240	120%	32,688
Property taxes				2,880	120%	3,456
Insurance				1,920	120%	2,304
Miscellaneous o	verhead			4,840	110%	5,324
Total overhead	t			\$192,830		\$230,559
					1	<u>II</u>
Predetermined of	overhead r	ate for	this year:		1	
\$230,559 ÷	45,980	machi	ne hours =	<u>\$5.014</u>	* per machine	hour
*Rounded.						
Roullaea.						

Chapter 2, P 7.

2. Amount of applied overhead determined.

	Actual	_ x		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			\$233,903

*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.

Chapter 2, P 8.						
1. Total costs assigned to the Kent order.						
	Traditional					
	Costing					
	Method					
Cost of direct materials	\$17,450.00					
Cost of purchased parts	14,800.00					
Direct labor costs						
\$16.50						
× 140 hours	2,310.00					
Overhead cost:						
Traditional costing method						
\$2,310						
× 240%	5,544.00					
Total costs assigned to the Kent order	<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.					
a.	Ratios of cost of direct materials used, direct labor, and total overhead to total manufacturing costs.					
		This Year		Last Year		
		Amount	Ratio	Amount	Ratio	
	Cost of direct materials used	\$ 983,860	48.3%	\$ 962,260	48.2%	
	Direct labor	571,410	28.0%	579,720	29.1%	
	Total overhead	482,880	<u>23.7</u> %	452,110	<u>22.7</u> %	
	Total manufacturing costs	\$2,038,150	<u>100.0</u> %	\$1,994,090	<u>100.0</u> %	
b.	*Adjusted for total of percentages to equal 100.0%. Ratios of sales salaries and commission expense, advertising expense, other selling expenses, administrative expenses, and total selling and administrative					
	expenses to sales.			1		
		This Y	ear	Last Y	Last Year	
		Amount	Ratio	Amount	Ratio	
	Sales salaries and commission					
	expense	\$ 394,840	13.4%	\$ 329,480	10.6%	
	Advertising expense	116,110	3.9%	194,290	6.3%	
	Other selling expenses	82,680	2.8%	72,930	2.4%	
	Administrativo ovnances	242,600	8.2%	195,530	<u>6.3</u> %	
	Administrative expenses		<u> </u>	II		
	Total selling and administrative					
	· · · · · · · · · · · · · · · · · · ·	<u>\$ 836,230</u>	<u>28.4</u> %*	* <u>\$ 792,230</u>	<u>25.6</u> %	
	Total selling and administrative			* <u>\$ 792,230</u> <u>\$3,096,220</u>		
Di c.	Total selling and administrative expenses Sales ifference due to Excel rounding.	<u>\$ 836,230</u> <u>\$2,942,960</u>	<u></u> %			
	Total selling and administrative expenses Sales ifference due to Excel rounding.	<u>\$ 836,230</u> <u>\$2,942,960</u>	<u>28.4</u> %* <u>100.0</u> %		<u>100.0</u> %	
	Total selling and administrative expenses Sales ifference due to Excel rounding.	\$ 836,230 \$2,942,960 come to sales.	<u>28.4</u> %* <u>100.0</u> %	<u>\$3,096,220</u>	<u>100.0</u> %	
	Total selling and administrative expenses Sales ifference due to Excel rounding.	\$ 836,230 \$2,942,960 come to sales. This Y	<u>28.4</u> %* <u>100.0</u> % ear	\$3,096,220 Last Y		
	Total selling and administrative expenses Sales ifference due to Excel rounding. Ratios of gross margin and net inc	\$ 836,230 \$2,942,960 come to sales. This Y Amount	<u>28.4</u> %* <u>100.0</u> % ear Ratio	\$3,096,220 Last Y Amount	<u>100.0</u> % ear Ratio	

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.

Cha	apte	er 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.	b. This information is relevant because it can help in making a variety of de					
		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 emp	oloyee				
		performance.					
	c.	Most of this information can be obtained from the Accounting D)epartment.				
		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						
	tot	total costs for each expense item. The following report and cost items are					
	suggested.						
	Latchey: Grounds Maintenance Department						
		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				
	Ma	intenance expense, garden equipment	XXX				
	Sc	heduling and other administrative labor expense	<u></u>				
	То	tal costs for gardening activities	<u>\$xxx</u>				

Ch	apte	er 2, C 3.		
	lf y	ou were asked to analyze your department's costs in order to reduce waste,		
	yo	u could prepare more detailed reports. The department's total costs could		
	be	split into smaller groups of costs. For example, you could separate the		
	CO	sts by areas worked (buildings, grounds, entrances, and recreational facili-		
	tie	s) to find the costs associated with maintaining each area. Or you could		
	se	parate the costs by activity (gardening and upkeep of land improvements)		
	to	determine the costs associated with performing each activity. The format of		
	the	ese reports would be different from the one above. You would provide a		
	со	column of costs for each area or activity and rows for different groupings of		
	expenses. 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 inco	me statement pr	epared.
H & W Pharmaceuticals Corpo	ration	
Statement of Cost of Goods Manu		
For the Month Ended April	30	11
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>
	2,600 – \$228, pration	100
*Cost of direct materials used = \$258,400 + \$61 H & W Pharmaceuticals Corpo Income Statement		100
H & W Pharmaceuticals Corpo	pration	100
H & W Pharmaceuticals Corpo Income Statement	pration	100 \$2,188,400
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April	pration	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales	pration	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold	oration 30	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning	30 30 \$ 111,700	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning Cost of goods manufactured	30 30 \$ 111,700 1,118,000	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning Cost of goods manufactured Cost of finished goods available for sale	30 30 \$ 111,700 1,118,000 \$1,229,700	11
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning Cost of goods manufactured Cost of finished goods available for sale Less finished goods inventory, ending	30 30 \$ 111,700 1,118,000 \$1,229,700	\$2,188,400
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning Cost of goods manufactured Cost of finished goods available for sale Less finished goods inventory, ending Cost of goods sold	30 30 \$ 111,700 1,118,000 \$1,229,700	\$2,188,400
H & W Pharmaceuticals Corpo Income Statement For the Month Ended April Sales Cost of goods sold Finished goods inventory, beginning Cost of goods manufactured Cost of finished goods available for sale Less finished goods inventory, ending Cost of goods sold Gross margin	30 30 \$ 111,700 1,118,000 \$1,229,700	\$2,188,400

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 manu-
	acturing costs for April, as well as costs associated with production started
	n 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.

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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.