EXERCISE 7-3 (10-15 minutes)

Current assets

Accounts receivable

Customers

Accounts (of which accounts in the amount of \$40,000 have been pledged as security for a

bank loan) \$79,000

Installment accounts collectible

due in 2007 23,000

Installment accounts collectible

due after December 31, 2007* 34,000 \$136,000

Other** (\$2,640 + \$1,500) 4,140 \$140,140

Investments

Advance to subsidiary company

81,000

EXERCISE 7-4 (10-15 minutes)

Computation of cost of goods sold:

Merchandise purchased \$320,000
Less: Ending inventory 90,000
Cost of goods sold \$230,000

^{*}This classification assumes that these receivables are collectible within the operating cycle of the business.

^{**}These items could be separately classified, if considered material.

EXERCISE 7-4 (Continued)

Selling price = 1.4 (Cost of good sold) = 1.4 (\$230,000) = \$322,000

Sales on account	\$322,000
Less: Collections	<u> 198,000</u>
Uncollected balance	124,000
Balance per ledger	82,000

Apparent shortage \$ 42,000 —Enough for a new car

EXERCISE 7-5 (15-20 minutes)

(a)	(1) June	3 Accounts Receivable—Chester Sales	3,000	3,000
	June 1	2 Cash	2,940	
		Sales Discounts (\$3,000 X 2%)	60	
		Accounts Receivable—Chester		3,000
	(2) June	3 Accounts Receivable—Chester	2,940	
		Sales (\$3,000 X 98%)		2,940
	June 1	2 Cash	2,940	
		Accounts Receivable—Chester		2.940

EXERCISE 7-7 (10-15 minutes)

(a)	Bad	Debt Expense Allowance for Doubtful Accounts	8,500	8,500*
*.01	X (\$9	(00,000 - \$50,000) = \$8,500		
(b)	Bad	Debt Expense Allowance for Doubtful Accounts	3,000	3,000*
*Ste	p 1:	.05 X \$100,000 = \$5,000 (desired credit ba account)	lance in A	llowance
Step	2:	\$5,000 - \$2,000 = \$3,000 (required credit entry account to \$5,000 credit balance)	y to bring a	llowance
EXE	RCIS	E 7-8 (15–20 minutes)		
(a)	Allov	vance for Doubtful Accounts	6,000	
		Accounts Receivable		6,000
(b)	Acco	unts Receivable		\$800,000
	Less	: Allowance for Doubtful Accounts	-	40,000
		Net realizable value		<u>\$760,000</u>
(c)	Acco	unts Receivable		\$794,000
	Less	: Allowance for Doubtful Accounts	-	34,000
		Net realizable value		<u>\$760,000</u>

EXERCISE 7-9 (8-10 minutes)

(a)	Bad Debt Expense	5,350	
	Allowance for Doubtful Accounts		5,350
	(\$90,000 X 4%) + \$1,750 = \$5,350		
(b)	Bad Debt Expense	6,800	
	Allowance for Doubtful Accounts		6,800
	\$680,000 X 1% = \$6,800		

EXERCISE 7-10 (10–12 minutes)

- (a) The direct write-off approach is not theoretically justifiable even though required for income tax purposes. The direct write-off method does not match expenses with revenues of the period, nor does it result in receivables being stated at estimated realizable value on the balance sheet.
- (b) Bad Debt Expense 2% of Sales = \$44,000 (\$2,200,000 X 2%)

 Bad Debt Expense Direct Write-Off = \$31,330 (\$7,800 + \$6,700 + \$7,000 + \$9,830)

Net income would be \$12,670 (\$44,000 - \$31,330) lower under the percentage-of-sales approach.

EXERCISE 7-19 (20-25 minutes)

(a)	Notes Receivable Discount on Notes Receivable Consulting Revenue	200,000	34,710 165,290*
P	emputation of present value of note: 2V of \$200,000 due in 2 years at 10% 200,000 X .82645 = \$165,290		
(b)	Discount on Notes Receivable Interest Revenue	16,529	16,529*
*\$1	65,290 X 10% = \$16,529		
(c)	Discount on Notes Receivable Interest Revenue	18,181*	18,181
*\$3	4,710 – \$16,529		
	Cash Notes Receivable	200,000	200,000
EXE	ERCISE 7-20 (10–15 minutes)		
(a)	Accounts Receivable Sales	100,000	100,000
	Cash Accounts Receivable	70,000	70,000

PROBLEM 7-3

(a) The Allowance for Doubtful Accounts should have a balance of \$50,000 at year-end. The supporting calculations are shown below:

Days Account		Expected Percentage	Estimated
Outstanding	Amount	Uncollectible	Uncollectible
0–15 days	\$300,000	.02	\$ 6,000
16–30 days	100,000	.10	10,000
31-45 days	80,000	.15	12,000
46-60 days	40,000	.25	10,000
61-75 days	20,000	.60	12,000

The accounts which have been outstanding over 75 days (\$15,000) and have zero probability of collection would be written off immediately by a debit to allowance for Doubtful Accounts for \$15,000 and a credit to Amounts Receivable for \$15,000. It is not considered when determining the proper amount for the Allowance for Doubtful Accounts.

(b)	Accounts receivable (\$555,000 – \$15,000)	\$540,000
	Less: Allowance for doubtful accounts	50,000
	Accounts receivable (net)	<u>\$490,000</u>

(c) The year-end bad debt adjustment would decrease before-tax income \$30,000 as computed below:

Estimated amount required in the Allowance for	
Doubtful Accounts	\$50,000
Balance in the account after write-off of uncollectible	
accounts but before adjustment (\$35,000 – \$15,000)	20,000
Required charge to expense	<u>\$30,000</u>

PROBLEM 7-8

10/1/07	Notes Receivable	100,000	
	Sales		100,000
12/31/07	Interest Receivable	2,000*	
	Interest Revenue		2,000
*\$100,000	X .08 X 3/12 = \$2,000		
10/1/08	Cash	8,000*	
	Interest Receivable		2,000
	Interest Revenue		6,000**
	X.08 = \$8,000		
**\$100,000	0 X .08 X 9/12 = <u>\$6,000</u>		
12/31/08	Interest Receivable	2,000	
	Interest Revenue		2,000
10/1/09	Cash	8,000	
	Interest Receivable		2,000
	Interest Revenue		6,000
	Cash	100,000	
	Notes Receivable		100,000

Note: Entries at 10/1/08 and 10/1/09 assumes reversing entries were not made on January 1, 2008 and January 1, 2009.

SOLUTIONS TO EXERCISES

EXERCISE 8-1 (15-20 minutes)

Items 1, 3, 5, 8, 11, 13, 14, 16, and 17 would be reported as inventory in the financial statements.

The following items would not be reported as inventory:

- 2. Cost of goods sold in the income statement.
- 4. Not reported in the financial statements.
- 6. Cost of goods sold in the income statement.
- 7. Cost of goods sold in the income statement.
- 9. Interest expense in the income statement.
- 10. Advertising expense in the income statement.
- 12. Office supplies in the current assets section of the balance sheet.
- 15. Not reported in the financial statements.
- 18. Short-term investments in the current asset section of the balance sheet.

EXERCISE 8-2 (10-15 minutes)

Inventory per physical count	\$441,000
Goods in transit to customer, f.o.b. destination	+ 38,000
Goods in transit from vendor, f.o.b. seller	+ 51,000
Inventory to be reported on balance sheet	<u>\$530,000</u>

The consigned goods of \$61,000 are not owned by Jose Oliva and were properly excluded.

The goods in transit to a customer of \$46,000, shipped f.o.b. shipping point, are properly excluded from the inventory because the title to the goods passed when they left the seller (Oliva) and therefore a sale and related cost of goods sold should be recorded in 2007.

The goods in transit from a vendor of \$83,000, shipped f.o.b. destination, are properly excluded from the inventory because the title to the goods does not pass to Oliva until the buyer (Oliva) receives them.

EXERCISE 8-7 (Continued)

(b)	May 31	Purchase Discounts Lost	132	132
EXE	RCISE 8-8			
(a)	Feb. 1	Inventory [\$10,800 – (\$10,800 X 10%)] Accounts Payable	9,720	9,720
	Feb. 4	Accounts Payable [\$2,500 – (\$2,500 X 10%)]	2,250	2,250
	Feb. 13	Accounts Payable (\$9,720 – \$2,250)	7,470	224.10 7,245.90
(b)	Feb. 1	Purchases [\$10,800 – (\$10,800 X 10%)] Accounts Payable	9,720	9,720
	Feb. 4	Accounts Payable [\$2,500 – (\$2,500 X 10%)] Purchase Returns and Allowances	2,250	2,250
	Feb. 13	Accounts Payable (\$9,720 – \$2,250) Purchase Discounts (3% X \$7,470) Cash	7,470	224.10 7,245.90

EXERCISE 8-8 (Continued)

(c)	Less: Tra Price on w	price (list) de discount (10% X \$10,800) which cash discount based sh discount (3% X \$9,720)	\$10,800 <u>1,080</u> 9,720 <u>291.60</u> \$ 9,428.40	
EXE	RCISE 8-9 (15–25 minutes)		
(a)	Jan. 4	Accounts ReceivableSales (80 X \$8)		640
	Jan. 11	Purchases (\$150 X \$6) Accounts Payable		900
	Jan. 13	Accounts Receivable Sales (120 X \$8.75)	•	1,050
	Jan. 20	Purchases (160 X \$7)Accounts Payable	_	1,120
	Jan. 27	Accounts Receivable Sales (100 X \$9)		900
	Jan. 31	Inventory (\$7 X 110) Cost of Goods Sold Purchases (\$900 + \$1,120) Inventory (100 X \$5)	. 1,750*	2,020 500

^{*(\$500 + \$2,020 - \$770)}

EXERCISE 8-13 (Continued)

Note: FIFO periodic and FIFO perpetual provide the same gross profit and inventory value.

(d) LIFO matches more current costs with revenue. When prices are rising (as is generally the case), this results in a higher amount for cost of goods sold and a lower gross profit. As indicated in this exercise, prices were rising and cost of goods sold under LIFO was higher.

EXERCISE 8-14 (20-25 minutes)

(2) Average cost

$$\frac{\text{Total cost}}{\text{Total units}} = \frac{\$33,655^*}{5,300} = \$6.35 \text{ average cost per unit}$$

700 @
$$$6.35 = $4,445$$

EXERCISE 8-14 (Continued)

<u>*Units</u>		Price		Total Cost
600	@	\$6.00	=	\$ 3,600
1,500	@	\$6.08	=	9,120
800	@	\$6.40	=	5,120
1,200	@	\$6.50	=	7,800
700	@	\$6.60	=	4,620
<u>500</u>	@	\$6.79	=	3,395
<u>5,300</u>				<u>\$33,655</u>

(c)	Total merchandise available for sale	\$33,655
	Less inventory (FIFO)	4,715
	Cost of goods sold	<u>\$28,940</u>

(d) FIFO.

EXERCISE 9-17 (Continued)

(d) Gross profit is 25% of cost

$$\frac{25\%}{100\% + 25\%} = 20\% \text{ markup on selling price}$$

Total goods available for sale (at cost)		\$2,100,000
Sales (at selling price)	\$2,500,000	
Less: Gross profit (20% of sales)	500,000	
Sales (at cost)		2,000,000
Ending inventory (at cost)		\$ 100,000

EXERCISE 9-18 (20–25 minutes)

(a)		Cost	Retail
	Beginning inventory	\$ 58,000	\$100,000
	Purchases	122,000	200,000
	Net markups		10,345
	Totals	<u>\$180,000</u>	310,345
	Net markdowns		<u>(26,135</u>)
	Sales price of goods available		284,210
	Deduct: Sales		186,000
	Ending inventory at retail		\$ 98,210

- (b) 1. $$180,000 \div $300,000 = \underline{60\%}$
 - 2. $$180,000 \div $273,865 = \underline{65.73\%}$
 - 3. $$180,000 \div $310,345 = \underline{58\%}$
 - 4. $$180,000 \div $284,210 = \underline{63.33\%}$

EXERCISE 9-18 (Continued)

- (c) 1. Method 3.
 - 2. Method 3.
 - 3. Method 3.
- (d) $58\% \times $98,210 = $56,962$
- (e) \$180,000 \$56,962 = \$123,038
- (f) \$186,000 \$123,038 = \$62,962

EXERCISE 9-19 (12–17 minutes)

	Cost		Retail
Beginning inventory	\$ 200,000		\$ 280,000
Purchases	1,375,000		2,140,000
Totals	1,575,000		2,420,000
Add: Net markups			
Markups		\$95,000	
Markup cancellations		<u>(15,000</u>)	80,000
Totals	<u>\$1,575,000</u>		2,500,000
Deduct: Net markdowns			
Markdowns		35,000	
Markdowns cancellations		(5,000)	30,000
Sales price of goods available			2,470,000
Deduct: Sales			2,200,000
Ending inventory at retail			<u>\$ 270,000</u>

Cost-to-retail ratio =
$$\frac{\$1,575,000}{\$2,500,000} = 63\%$$

Ending inventory at cost = 63% X \$270,000 = \$170,100