## II. INVENTORY ERRORS

Suppose ending inventory was miscounted and therefore mispriced. Profits for the year in question and the next year will be affected. For example, if the 1996 ending inventory, correctly valued at \$10,000, was erroneously recorded at \$8,000, the effect would be as follows:

Google "Excel Internet Library" for beginning to advanced learning materials.

	1990	1997	1998
Sales	\$60,000	\$60,000	\$60,000
Cost of Goods Sold:			
Beginning Inventory	10,000	8,000	10,000
Net Purchases	40,000	40,000	40,000
Cost of Goods Available	\$50,000	\$48,000	\$50,000
Ending Inventory	8,000	10,000	10,000
Cost of Goods Sold	\$42,000	\$38,000	\$40,000
Gross Profit	\$18,000	\$22,000	\$20,000

Note: Because ending inventory was understated in 1996, Cost of Goods Sold was overstated and Gross Profit was understated. The opposite occurs in 1997, as an understated beginning inventory understates Goods Available and Cost of Goods Sold, overstating Gross Profit. By 1998, statements would be correct.

## III. LOWER OF COST OR MARKET

Generally accepted accounting principle requires that inventory be reported at the lower of cost or market because a drop in inventory values will likely mean a drop in sales price and profits. Conservatism rules. In addition:

- \* Market is generally considered to be replacement cost
- \* Inventory Value must be ≤ Net Realizable Value (Selling Price Cost to Sell)
- \* Inventory Value must be > Net Realizable Value Normal Profit Margin

		DONIER O	F COST OR M	ndul muni.		
	Units		it Value	Total	Total	Lower of Cost or Market
Product	on Hand	Cost	Market	Cost	Market	(by product)
1	10	\$3	\$4	\$30	\$40	\$30
2	15	4	3	60	45	45
3	20	3	2	60	40	40
				\$150		<u>\$115</u>
		Lower o	f Cost or Ma	arket		
		(b)	y total mark	ket)	\$125	

## IV. ESTIMATING INVENTORY VALUES

Time constraints or unusual circumstances at times make a physical count of inventory difficult or even impossible. Two methods which value inventory without a count are:

RETAIL METHOD			GROSS PROFIT METHOD		
		Selling			
GIVEN:	Cost	Price		GIVEN:	
Merchandise Inventory: Sept. 30	\$40,000	\$ 70,000	- 20		
Net Purchases During October	60,000	114,000		Sales	\$152,000
Net Sales During October		150,000		Sales Returns	2,000
				Beginning Inventory	40,000
<ol> <li>Calculate Cost of Goods Available: Cost Selling</li> </ol>				Net Purchases	60,000
Beginning Inventory	\$ 40,000	\$ 70,000		Gross Profit % .45652	
Net Purchases	60,000	114,000			
Cost of Goods Available	\$100,000	\$184,000	1.	Calculate Cost of Goods Availa	ble
				Beginning Inventory	\$40,000
2. Calculate Average Cost Ratio:				Net Purchases	60,000
Goods Available at Cost = \$100,000				Cost of Goods Available	\$100,000
Goods Available at Selling Price					
			2.	Deduct Cost of Goods Sold	
	= .54348			Net Sales \$150,000	)
				Cost of Sales %	
3. Calculate Ending Inventory at Selling Price				1 - Gross profit %	
				145652 = <u>.54348</u>	
Deduct Sales		150,000	3.	Cost of Goods Left (Inventory)	\$18,478
Ending Inventory at Selling I	Price	\$ 34,000			
4. Calculate Ending Inventory at Cost					
Multiply by Cost Ratio		.54348			
Ending Inventory at Cost	:	\$18,478			

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