Financial Accounting



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Sixth Edition



Reporting and Analyzing Merchandising Operations

Conceptual Learning Objectives

- C1: Describe merchandising activities and identify income components for a merchandising company.
- C2: Identify and explain the inventory asset and cost flows of a merchandising company.

Analytical Learning Objectives

- A1: Compute the acid-test ratio and explain its use to assess liquidity.
- A2: Compute the gross margin ratio and explain its use to assess profitability.

Procedural Learning Objectives

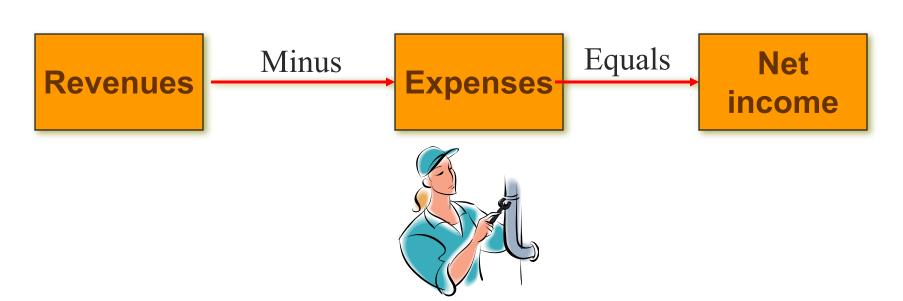
- P1: Analyze and record transactions for merchandise purchases using a perpetual system.
- P2: Analyze and record transactions for merchandise sales using a perpetual system.
- P3: Prepare adjustments and close accounts for a merchandising company.
- P4: Define and prepare multiple-step and single-step income statements.
- P5: Appendix 4A Record and compare merchandising transactions using both periodic and perpetual inventory systems (see text for details).



Merchandising Activities

Service organizations sell time to earn revenue.

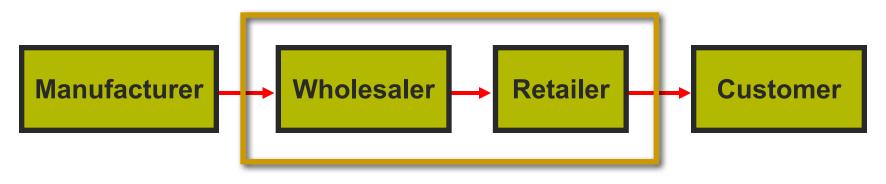
Examples: Accounting firms, law firms, and plumbing services





Merchandising Activities

Merchandising Companies







Reporting Income for a Merchandiser

Merchandising companies sell products to earn revenue. Examples: sporting goods, clothing, and auto parts stores

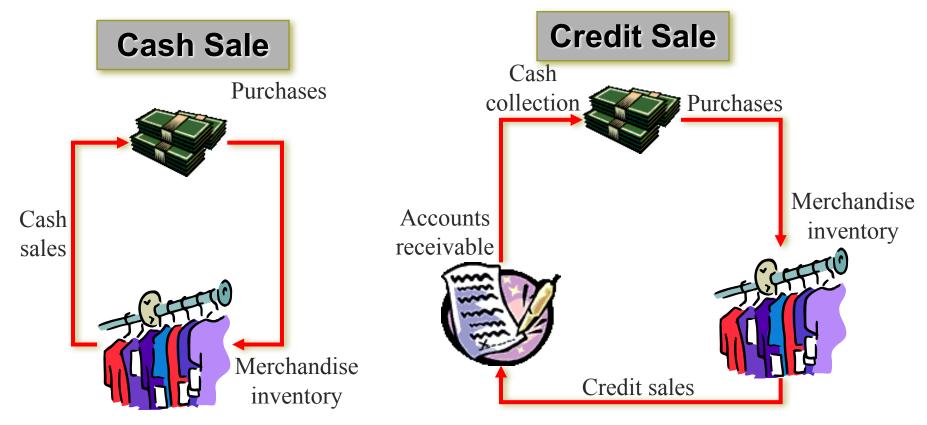


Merchandising Company Income Statement For Year Ended December 31, 2011		
Net sales Cost of goods sold Gross profit Operating expenses Net income	\$ 150,000 80,000 \$ 70,000 46,500 \$ 23,500	



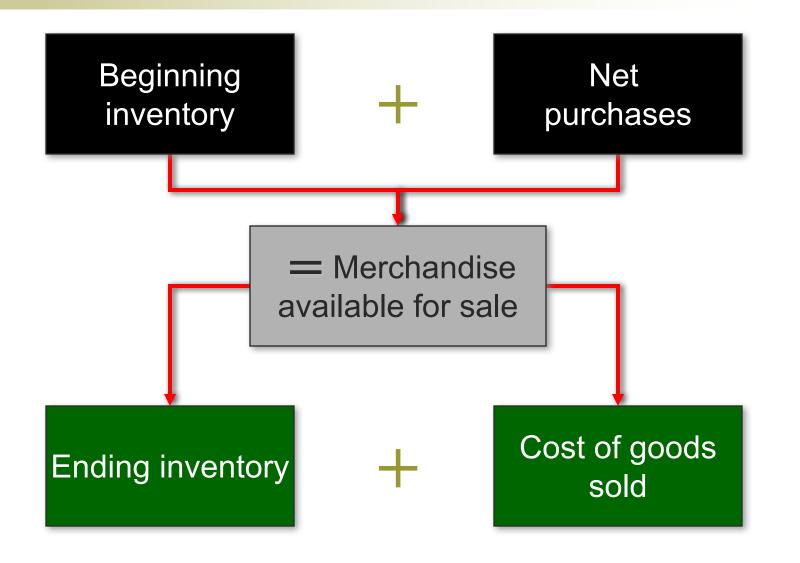
Operating Cycle for a Merchandiser

Begins with the purchase of merchandise and ends with the collection of cash from the sale of merchandise.





Inventory Systems





Merchandise Purchases

On June 20, Jason, Inc. purchased \$14,000 of Merchandise Inventory paying cash.

Dr. Cr.

14,000

Jun. 20 Merchandise Inventory 14,000

Cash

Purchase merchandise for cash





Trade Discounts

Used by manufacturers and wholesalers to offer better prices for greater quantities purchased.

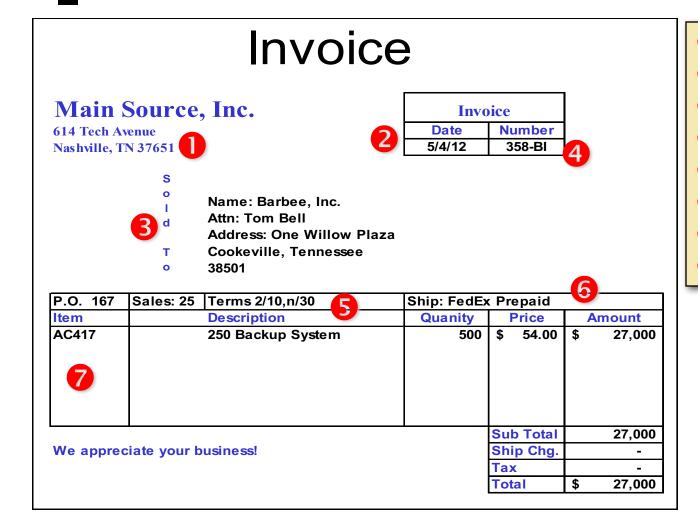
Example

Matrix, Inc. offers a 30% trade discount on orders of 1,000 units or more of their popular product Racer. Each Racer has a list price of \$5.25.

1,000
\$ 5.25
5,250
(1,575)
\$3,675



Vendor's Invoice for Purchase of Merchandise

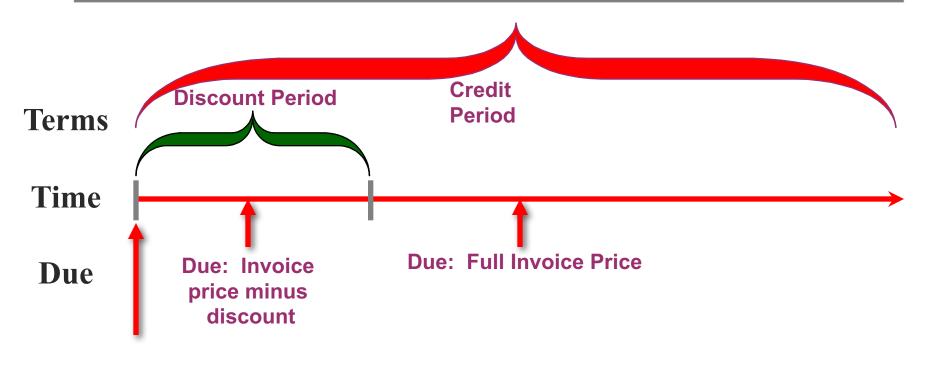


Oseller
Invoice date
Purchaser
Order number
Credit terms
Freight terms
Goods
Invoice amount

8

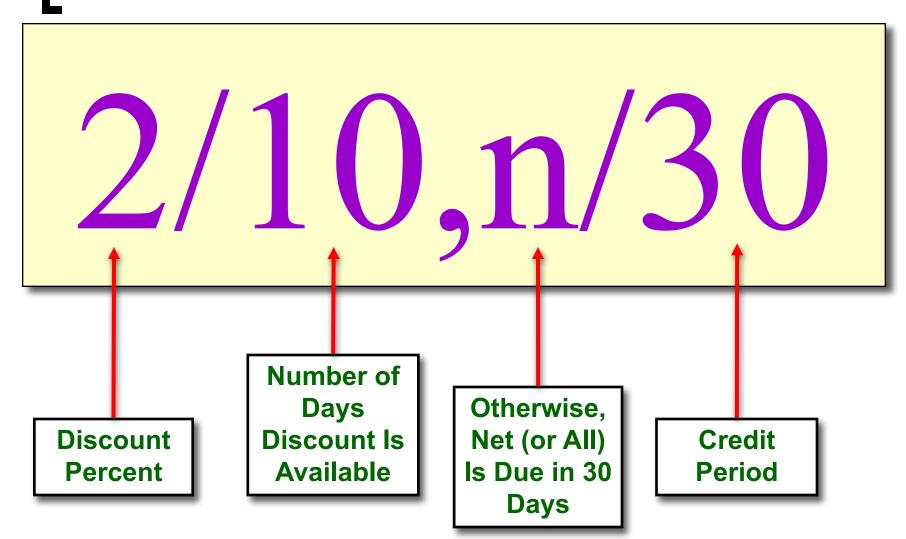


A deduction from the invoice price granted to induce early payment of the amount due.



Date of Invoice







On May 7, Jason, Inc. purchased \$27,000 of merchandise inventory on account, credit terms are 2/10, n/30.

Dr.

Cr.

Merchandise Inventory Accounts Payable

27,000 27,000

Purchase merchandise on account



On May 15, Jason, Inc. paid the amount due on the purchase of May 7.

Dr. Cr.

May 15 Accounts Payable 27,000

Cash 26,460

Merchandise Inventory*

Paid accounts payable in full

 $*$27,000 \times 2\% = 540 discount

540



After we post these entries, the accounts involved look like this:

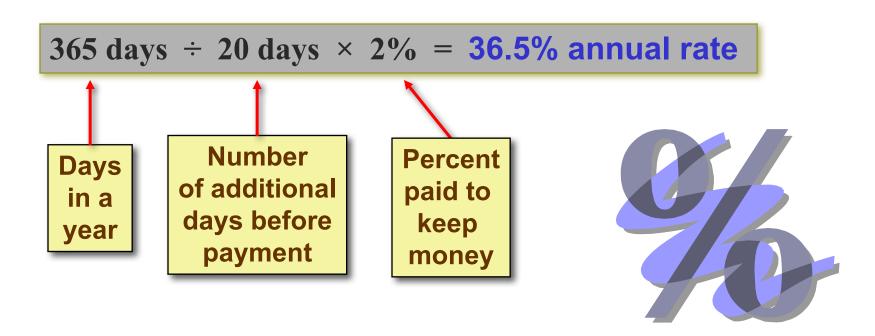


Accounts Payable			
5/15	27,000	5/7	27,000
		Ва	ıl. 0



When Discount Is Not Taken

If we fail to take a 2/10, n/30 discount, is it really expensive?





Purchase returns . . .

refer to merchandise a buyer acquires but then returns to the seller.

Purchase allowance . . .

is a reduction in the cost of defective or unacceptable merchandise that a buyer acquires.



On May 9, Matrix, Inc. purchased \$20,000 of merchandise inventory on account, credit terms are 2/10, n/30.

May 9 Merchandise Inventory Accounts Payable

20,000

20,000

Purchase merchandise on account



On May 10, Matrix, Inc. returned \$500 of defective merchandise to the supplier.

Dr. Cr.
May 10 Accounts Payable 500

Merchandise Inventory 500

Returned defective merchandise



On May 18, Matrix, Inc. paid the amount owed for the purchase of May 9.

May 18 Accounts Payable

Cash

Merchandise Inventory

Paid account in full

Dr. Cr. 19,500

19,110

390



 Purchase
 \$ 20,000

 Returns
 (500)

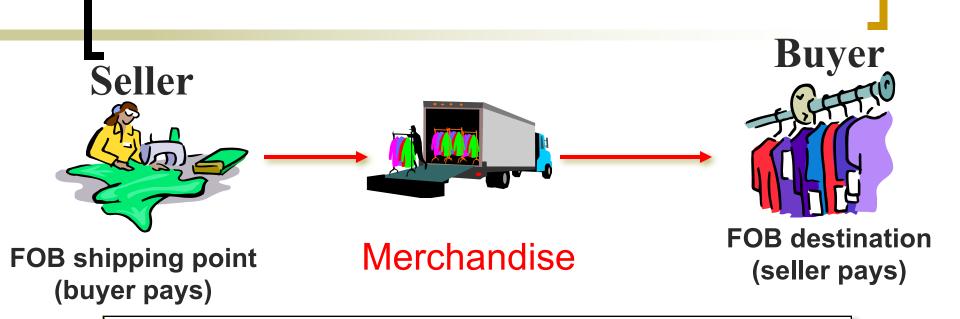
 Amount Due
 19,500

 Discount
 (390)

 Cash Paid
 \$ 19,110



Transportation Costs



	Ownership transfers	Tuononoutotion
Terms	to buyer when goods are passed to	Transportation costs paid by
FOB shipping point	Carrier	Buyer
FOB destination	Buyer	Seller



Transportation Costs

On May 12, Jason, Inc. purchased \$8,000 of merchandise inventory for cash and also paid \$100 transportation costs.

May 12 Merchandise Inventory 8,100
Cash 8,100
Paid for merchandise and transportation





On July 6, 2011, Seller Co. sold \$7,500 of merchandise to Buyer, Co. on account; terms of 2/10,n/30. The shipping terms were FOB shipping point. The shipping cost was \$100. Which of the following will be part of Buyer's July 6 journal entry?

- a. Credit Sales \$7,500
- b. Credit Purchase Discounts \$150
- c. Debit Merchandise Inventory \$7,600
- d. Debit Accounts Payable \$7,450

FOB shipping point indicates the buyer ultimately pays the freight. This is recorded with a debit to Merchandise Inventory.



Cost of Merchandise Purchased

ases			
\$ 692,500			
(10,388)			
(4,275)			
Cost of transportation-in 4,895			
\$ 682,732			



Accounting for Merchandise Sales

MATRIX, INC. Computation of Gross Profit For Year Ended May 31, 2011			
Sales		\$	2,451,000
Less:			
Sales discounts	\$ 29,412		
Sales returns and allowances	18,500		47,912
Net sales		\$	2,403,088
Cost of goods sold			(1,928,600)
Gross profit		\$	474,488

Sales discounts and returns and allowances are contra revenue accounts.



Sales of Merchandise

On March 18, Diamond Store sold \$25,000 of merchandise on account. The merchandise was carried in inventory at a cost of \$18,000.

Dr. Cr.

Mar. 18 Accounts Receivable 25,000

Sales 25,000

Sales of merchandise on credit

Cost of Goods Sold 18,000

Merchandise Inventory 18,000

To record cost of sales



Jun. 8

Sales Discounts

On June 8, Barton Co. sold merchandise costing \$3,500 for \$6,000 on account. Credit terms were 2/10, n/30. Let's prepare the journal entries.

Dr. Cr. 6,000

6,000

3,500

Accounts Receivable 6,000
Sales

Sales of merchandise on credit

Cost of Goods Sold 3,500

Merchandise Inventory

To record cost of sales

4-30



Sales Discounts

On June 17, Barton Co. received a check for \$5,880 in full payment of the June 8 sale.

Jun 17Cash5,880Sales Discounts120

Accounts Receivable

6,000

Received payment less discount



Sales Returns and Allowances

On June 12, Barton Co. sold merchandise costing \$4,000 for \$7,500 on account. The credit terms were 2/10, n/30.

Jun. 12 Accounts Receivable 7,500
Sales 7,500

Sales of merchandise on credit

Cost of Goods Sold 4,000

Merchandise Inventory 4,000

To record cost of sales

Dr.

Cr.



Sales Returns and Allowances

On June 14, merchandise with a sales price of \$800 and a cost of \$470 was returned to Barton. The return is related to the June 12 sale.

		Dr.	Cr.
Jun. 14	Sales Returns and Allowances	800	
	Accounts Receivable		800
	Customer returned merchandise		
	Merchandise Inventory	470	
	Cost of Goods Sold		470
	Returned goods placed in invent	ory	



Sales Returns and Allowances

On June 20, Barton received the amount owed to it from the sale of June 12.

Jun. 20 Cash 6,566
Sales Discount 134
Accounts Receivable 6,700
Received payment less discount

 Sale
 \$7,500

 Return
 (800)

 Amount due
 \$6,700

 Discount
 (134)

 Cash received
 \$6,566



Completing the Accounting Cycle

BARTON COMPANY
Adjusted Trial Balance
December 31, 2011

	,, =0	
Cash	\$ 7,700	
Accounts receivable	11,200	
Merchandise inventory	14,300	
Supplies	1,300	
Equipment	41,200	
Accum. depr Equip.		\$ 7,00
Accounts payable		16,40
Salaries payable		1,00
Common Stock		42,40
Retained Earnings		
Dividends	4,000	
Sales		323,800
Sales discounts	4,300	
Sales returns	2,000	
Cost of goods sold	233,200	
Admin. salaries expense	18,200	
Sales salaries expense	29,600	
Insurance expense	1,200	
Rent expense	8,100	
Supplies expense	1,000	
Advertising expense	13,300	

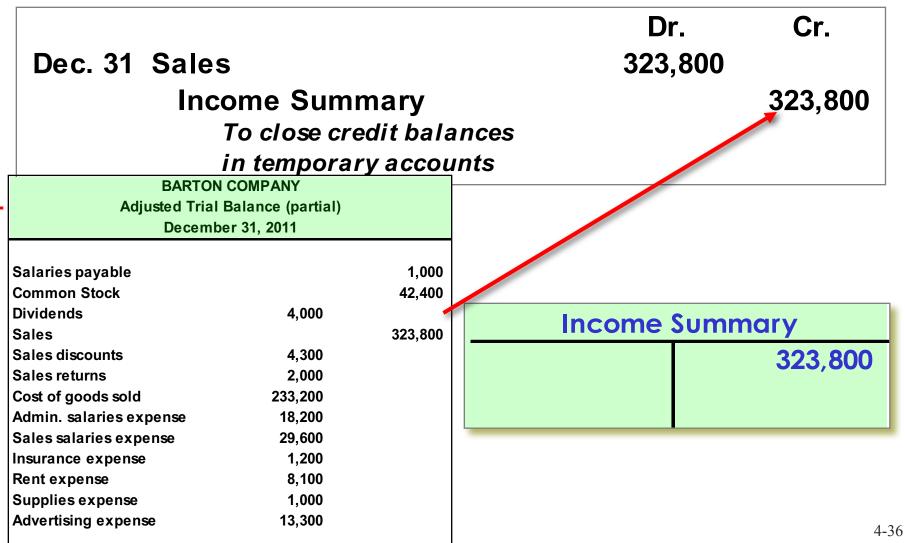
390,600

Next, let's complete the accounting cycle by preparing the closing entries for Barton Company.





Step 1: Close Credit Balances in Temporary Accounts to Income Summary





Step 2: Close Debit Balances in Temporary Accounts to Income Summary

		Dr.	Cr.
De c. 31	Income Summary	310,900	
	Sales Discounts		4,300
	Sales Returns		2,000
	Cost of Goods Sold		233,200
	Adm. Salaries Expense		18,200
	Sales Salaries Expense		29,600
	Insurance Expense		1,200
	Rent Expense		8,100
	Supplies Expense		1,000
	Advertising Expense		13,300
	To close debit balances in	temporary acc	counts

Income Summary	
310,900	323,800
	12,900



Step 3: Close Income Summary to Retained Earnings

Dr.

Dec. 31 Income Summary

Retained Earnings

12,900

12,900

Cr.

To close Income Summary account

Income Summary		
310,900	323,800	
12,900		
	-0-	



Step 4: Close Dividends to Retained Earnings

Dr. Cr.

Dec. 31 Retained Earnings
Dividends

4,000

4,000

To close the dividends account

Multiple-Step Income Statement

BARTON COMPANY								
Income Statement								
For Year Ended December 31, 2011								
Sales					\$ 323,800			
Less: Sales discounts			\$	4,300				
Sales returns				2,000	6,300			
Net sales					\$ 317,500			
Cost of goods sold					233,200			
Gross profit					\$ 84,300			
Operating expenses:								
Selling expenses:								
Salaries expense	\$	29,600						
Advertising expense		13,300	\$	42,900				
General and administrative e	General and administrative expenses:							
Adm. salaries expense	\$	18,200						
Insurance expense		1,200						
Rent expense		8,100						
Supplies expense		1,000		28,500				
Total operating expenses					71,400			
Net income					\$ 12,900			



Net income

Single-Step Income Statement

BARTON COMPANY							
Income Statement							
For Year Ended December 31, 2011							
Net sales		\$ 317,500					
Cost of goods sold	\$ 233,200						
Operating expenses	71,400						
Total expenses		304,600					

\$ 12,900



Balance Sheet

BARTON COMPANY								
Balance Sheet								
December 31, 2011								
Assets:								
Cash	\$	7,700						
Accounts receivable		11,200						
Merchandise inventory		14,300						
Supplies		1,300						
Equipment		41,200						
Accum. depr Equip.		(7,000)						
Total assets			\$	68,700				
Liabilities								
Accounts payable				16,400				
Salaries payable				1,000				
Total liabilities				17,400				
	Equity							
Common stock				42,400				
Retained earnings				8,900				
Total liabilities			\$	51,300				
Total liabilities & equity			\$	68,700				



Acid-Test Ratio

Acid-test _ Quick assets_ ratio Current liabilities

Acid-test <u>Cash + S/T investments + receivables</u>
ratio <u>Current liabilities</u>

A common rule of thumb is the acid-test ratio should have a value of at least 1.0 to conclude a company is unlikely to face liquidity problems in the near future.



Gross Margin Ratio

Gross
margin = Net sales - Cost of goods sold
Net sales

Percentage of dollar sales available to cover expenses and provide a profit.

End of Chapter 04

