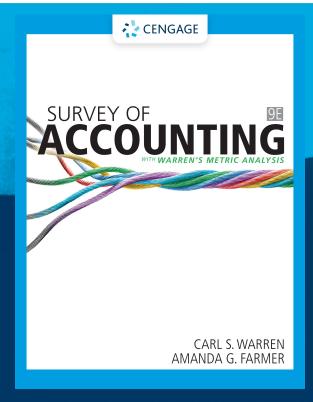
## **Survey of Accounting, 9e**

Carl S. Warren and Amanda G. Farmer





# Chapter 4 Accounting for Retail Operations



## **Learning Objectives**

- Distinguish the operations and financial statements of a service business from those of a retail business
- Describe the accounting for the purchase of merchandise
- Describe the accounting for the sale of merchandise
- Describe the accounting for freight and sales taxes
- Illustrate the dual nature of merchandising transactions



## Learning Objectives (continued)

- Describe and illustrate adjustments for retail operations
- Describe and illustrate the financial statements of a retail company
- Describe and illustrate the markup percent

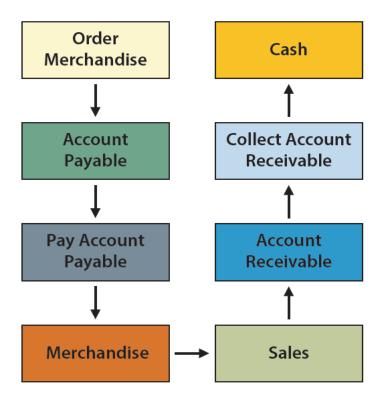


## **Learning Objective 1**

Distinguish the operations and financial statements of a service business from those of a retail business



## **Exhibit 1: Retail Operating Cycle**





## Differences between the Financial Statements of Retail and Service Businesses

Retail Business		Service Business	
Sales	\$XXX	Fees earned	\$XXX
Cost of goods sold	(XXX)	Operating expenses	(XXX)
Gross profit	\$XXX	Operating income	\$XXX
Operating expenses	(XXX)		
Operating income	\$XXX		



## **Learning Objective 2**

Describe the accounting for the purchase of merchandise



#### **Purchase Transactions**

- TechSource, a retailer of computer hardware and software, is used to illustrate merchandise transactions
  - Effects of each merchandise transaction on TechSource's financial statements are illustrated using the Integrated Financial Statement Framework
  - Metrics used to measure the effect of transactions
    - Working capital
       Working Capital = Current Assets Current Liabilities
    - Gross profit percent



#### Systems for Recording and Accounting for Merchandise Transactions

- Perpetual inventory system
  - Each purchase and sale of merchandise is recorded
  - Records consist of the controlling account and a subsidiary ledger
- Periodic inventory system
  - A physical inventory is prepared at the end of the accounting period



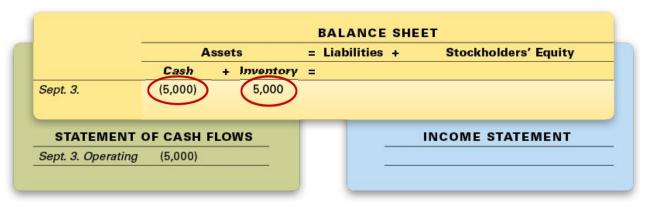
## **Computation of Cost of Goods Sold**

Beginning inventory	\$XXX
Purchases	
Merchandise available for sale	\$XXX
Ending inventory (from physical count)	(XXX)
Cost of goods sold	\$XXX



#### **Purchase of Merchandise for Cash**

TechSource purchases \$5,000 of merchandise for cash on September 3



Transaction metric effects





#### Purchase of Merchandise on Account

- Terms of the purchase are indicated on the invoice or bill sent to the buyer by the seller
- Terms for when payments for merchandise are to be made, agreed on by the buyer and the seller, are credit terms
  - If payment is required on delivery, the terms are cash or net cash
  - The buyer should make the payments within a credit period



### **Exhibit 2: Invoice**

	Matrix PWY se, CA 95116-1000		106-891
sold To TechSource 5101 Washington Ave. Cincinnati, OH 45227-5	5101	CUSTOMER'S ORDER NO. 10537	<b>DATE</b> May 29, 20Y7
June 3, 20Y7	HOW SHIPPED AND ROUTE US Express Trucking Co.	<b>TERMS</b> 2/10, n/30	June 3, 20Y7
FROM Cincinnati	F.O.B. Cincinnati		
QUANTITY 10	DESCRIPTION Printer/Fax/Scanner/Copier	UNIT PRICE 150.00	<b>AMOUNT</b> 1,500.00

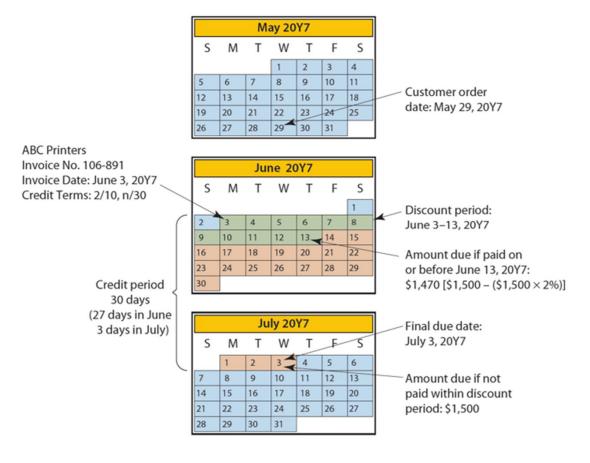


#### **Purchases Discounts**

- Received by buyers for making early payment of an invoice
- Buyers usually borrow to pay within a discount period in order to take the discount
- Offered by sellers to encourage buyers to pay before the end of the credit period

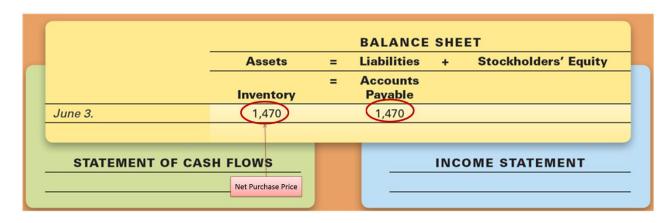


#### **Exhibit 3: Credit Terms**





#### **Effects of Purchase on Financial Statements**

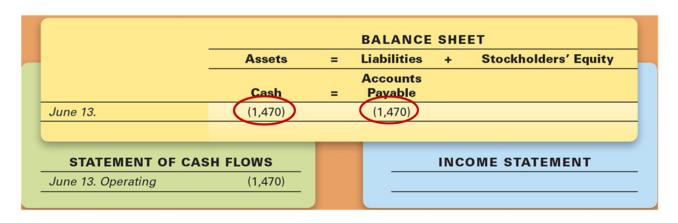


Transaction metric effects





## **Effects of Paying the Invoice**

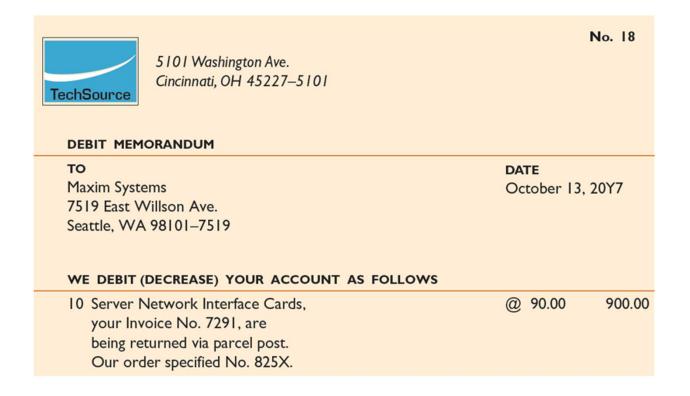


Transaction metric effects



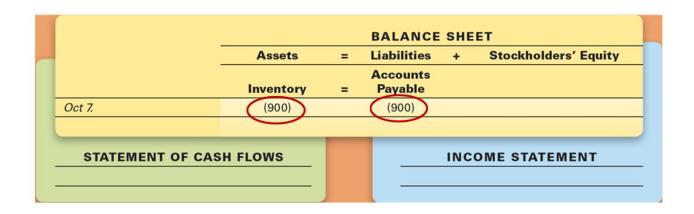


#### **Exhibit 4: Debit Memorandum**





## **Effects of Issuing the Debit Memo**



Transaction metric effects





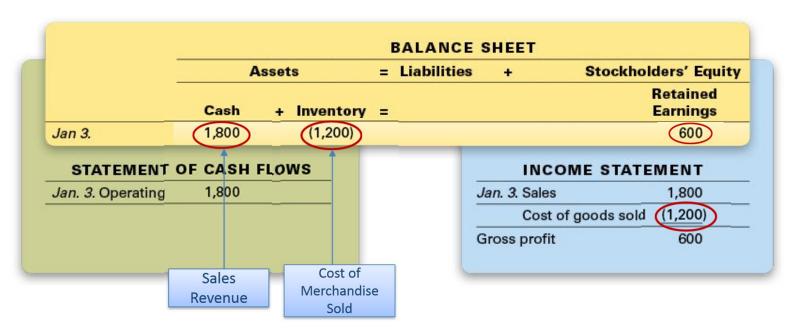
## **Learning Objective 3**

Describe the accounting for the sale of merchandise



#### **Sales Transaction**

On January 3, TechSource sold merchandise for \$1,800 that cost \$1,200 with credit terms n/30





## Sales Transaction (continued 1)

Transaction metric effects





## Sales Transaction (continued 2)

- Sales made to customers using credit cards are treated as cash sales
- In case of retail sales on credit, Accounts Receivable increases instead of Cash
  - When the customer pays the amount, Accounts Receivable decreases and Cash increases



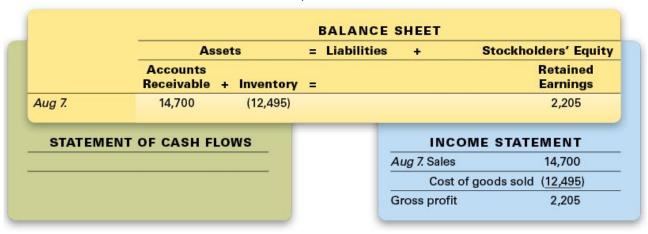
#### **Customer Discounts**

- Encourage customers to pay their invoices early
- Generally accepted accounting principles (GAAP) require that revenue be recorded in the amount expected to be received from selling a product or rendering services



## Customer Discounts (continued 1)

 TechSource sells \$15,000 of merchandise on account to Medical Health Services Inc. with credit terms 2/10, n/30



Transaction metric effects





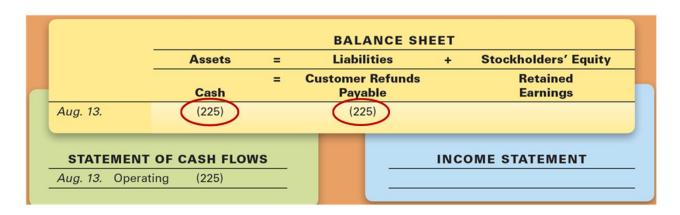
#### **Customer Refunds and Allowances**

- A seller may pay a refund or grant an allowance if:
  - A customer receives a defective or damaged product
  - A product does not meet a customer's expectations
- The seller needs to estimate the amount of refunds and allowances expected to be granted in the future at the end of each accounting period
  - Estimate is used in the adjusting process to record a current liability called Customer Refunds Payable



#### Effect of Sales Refund on TechSource's Financial Statements

 On August 13, TechSource pays Krier Company a refund of \$225 for merchandise damaged in shipment

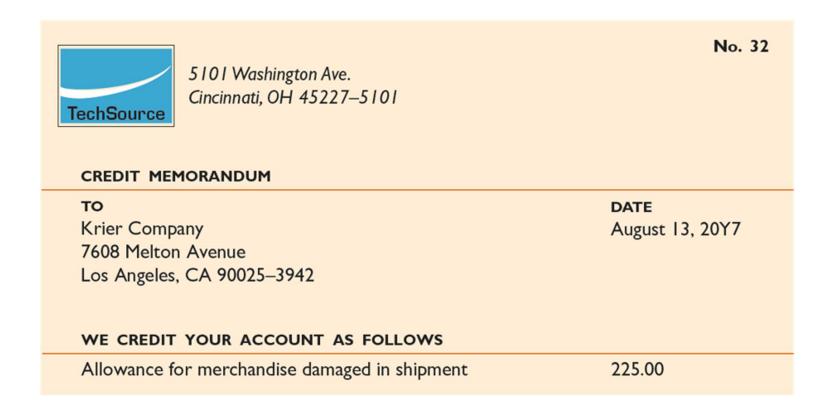


Transaction metric effects



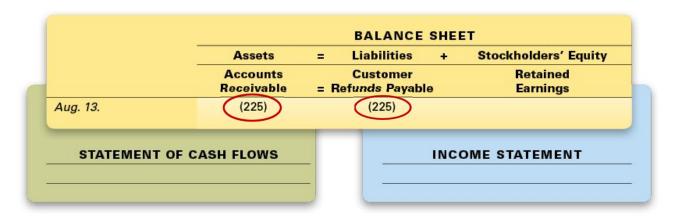


#### **Exhibit 5: Credit Memorandum**





## **Effects of Issuing the Credit Memo**



Transaction metric effects





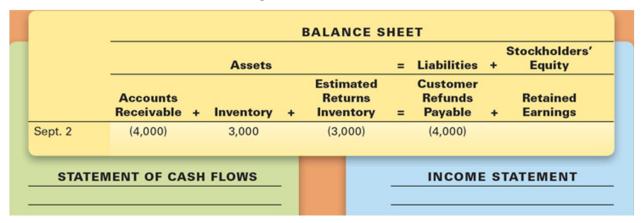
#### **Merchandise Returns**

- Customer may return merchandise for a cash refund or allowance
  - Receipt of the returned inventory needs to be recorded
- Inventory expected to be returned is represented as Estimated Returns
   Inventory
  - It is a current asset
  - Estimated at the end of the period as part of the adjusting process

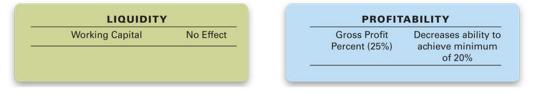


## Merchandise Returns (continued 1)

 On September 2, Wallis Co. returned merchandise to TechSource with a selling price of \$4,000, terms n/30, that had a cost of goods sold of \$3,000



Transaction metric effects



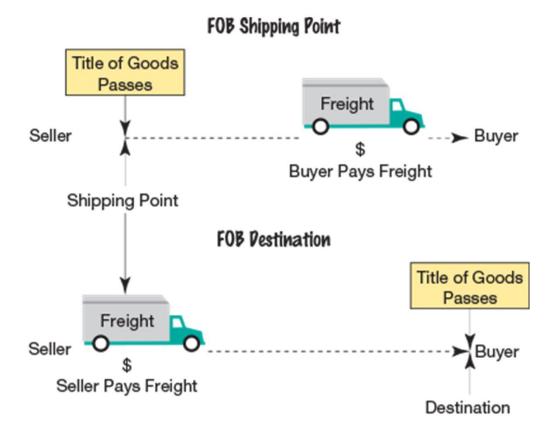


## **Learning Objective 4**

Describe the accounting for freight and sales taxes



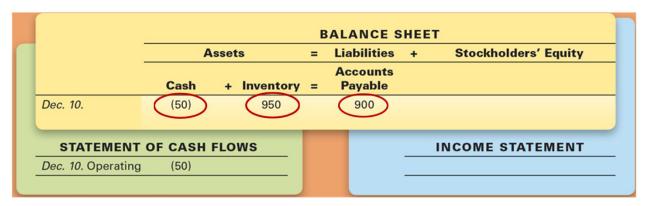
## **Exhibit 6: Freight Terms**





## **Freight**

- On December 10, TechSource buys merchandise from Magna Data on account, \$900, terms FOB shipping point
  - Pays the freight cost of \$50



Transaction metric effects





#### Sales Taxes

- Liability for sales tax is incurred when a sale is made
  - Cash sale: Seller collects the sales tax
  - Sale made on account: Seller charges the buyer by increasing Accounts Receivable
- Seller pays to the taxing unit the amount of the sales tax collected on a regular basis
  - Records the payment by decreasing Sales Tax Payable and Cash



# **Learning Objective 5**

Illustrate the dual nature of merchandising transactions



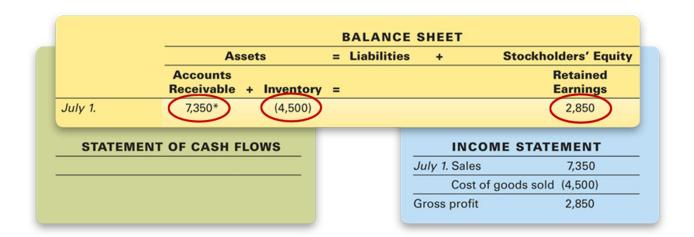
#### **Dual Nature of Merchandise Transactions**

- On July 1, Scully Company sold merchandise on account to Burton Co. for \$7,500
  - Terms: FOB destination and 2/10, n/30
  - Cost of the merchandise sold was \$4,500



## **Dual Nature of Merchandise Transactions** (continued 1)

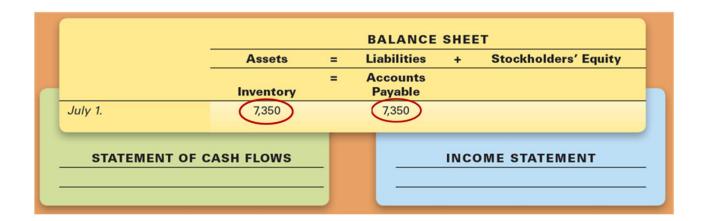
Scully Company (seller)





## **Dual Nature of Merchandise Transactions** (continued 2)

Burton Co. (buyer)





# **Learning Objective 6**

Describe and illustrate adjustments for retail operations



# **Adjustments for Retail Operations**

- Inventory shrinkage
- Estimated customer refunds and allowances
- Estimated customer merchandise returns



# **Inventory Shrinkage**

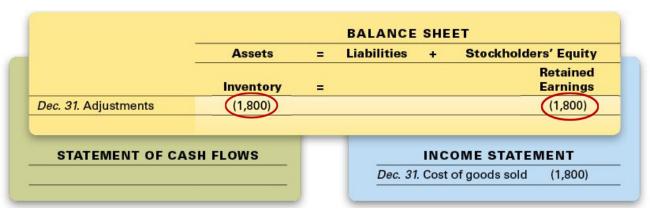
- Difference between the balance of Inventory and the physical inventory on hand at the end of the accounting period
- TechSource's inventory records on December 31, 20Y7

	Dec. 31, 20Y7
Account balance of Inventory	\$ 63,950
Physical merchandise inventory on hand	(62,150)
Inventory shrinkage	\$ 1,800

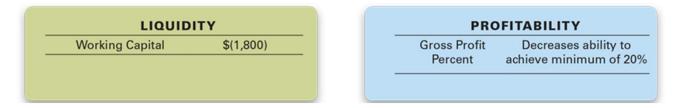


## Merchandise Shrinkage

Effects of the shrinkage on TechSource's financial statements



Transaction metric effects





## **Customer Refunds, Allowances, and Returns**

- Retailers estimate, based upon past operations, the percent of sales resulting in customer refunds and allowances
- The Customer Refund Payable account is adjusted to reflect future refunds and allowances



# Customer Refunds, Allowances, and Returns (continued)

Data for TechSource for the year ending December 31, 20Y7

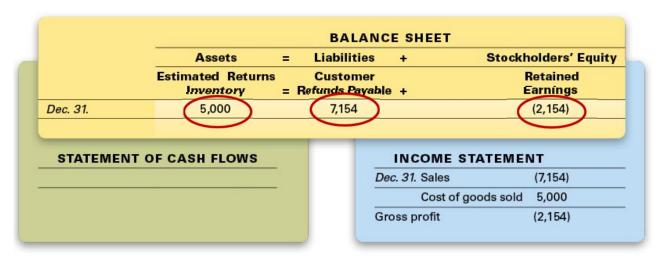
#### Unadjusted Balances December 31, 20Y7

Account	Bal	ances*
Estimated Returns Inventory	\$	300
Customer Refunds Payable		800
Sales	7	15,409
Cost of Goods Sold	5	13,505
Adjustment Data		
Estimated percent of sales that is expected to		
be refunded or issued an allowance in 20Y8		1%
Estimated cost of inventory that is expected to	\$	5,000
be return in 20Y8		
* A		

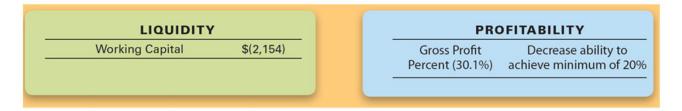
<sup>\*</sup> Assume all normal balances (positive amounts)



# Effects of Adjustments on the Accounts and Financial Statements of TechSource



Transaction metric effects





## **Learning Objective 7**

Describe and illustrate the financial statements of a retail company



#### **Exhibit 7: Multiple-Step Income Statement for TechSource**

#### TechSource Income Statement For the Year Ended December 31, 20Y7

Sales	\$ 708,255
Cost of goods sold	(520,305)
Gross profit	\$ 187,950
Operating expenses:	
Selling expenses:	

Total selling expenses.....\$70,820



# Exhibit 7: Multiple-Step Income Statement for TechSource (continued)

Administrative expenses:			
Office salaries expense	\$21,020		
Rent expense	8,100		
Depreciation expense—office equipment	2,490		
Insurance expense	1,910		
Office supplies expense	610		
Miscellaneous administrative expense	760		
Total administrative expenses		34,890	
Total operating expenses			(105,710)
Operating income			\$ 82,240
Other revenue and expense:			
Rent revenue		\$ 600	
Interest expense		(2,440)	(1,840)
Net income			\$ 80,400



## Subsections in a Multiple-Step Income Statement

- Sales
- Cost of goods sold
- Gross profit
- Operating income
  - Selling expenses
  - Administrative expenses
- Other revenue
- Other expense



#### **Exhibit 8: Single-Step Income Statement for TechSource**

#### TechSource Income Statement For the Year Ended December 31, 20Y7

Revenues:		
Sales		\$708,255
Rent revenue		600
Total revenues		\$708,855
Expenses:		
Cost of goods sold	\$520,305	
Selling expenses	70,820	
Administrative expenses	34,890	
Interest expense	2,440	
Total expenses		(628,455)
Net income		\$ 80,400



#### **Exhibit 9: Statement of Stockholders' Equity for TechSource**

	Common Stock	Retained Earnings	Total
Balances, Jan. 1, 20Y7	\$25,000	\$128,800	\$153,800
Net income		80,400	80,400
Dividends		(18,000)	(18,000)
Balances, Dec. 31, 20Y7	\$25,000	\$191,200	\$216,200



#### **Exhibit 10: Balance Sheet for TechSource**

#### TechSource Balance Sheet December 31, 20Y7

Assets		
Current assets:		
Cash		\$ 52,650
Accounts receivable		91,080
Inventory		62,150
Estimated returns inventory		5,300
Office supplies		480
Prepaid insurance		2,650
Total current assets		\$214,310
Property, plant, and equipment:		
Land	\$ 20,000	
Store equipment		
Less accumulated depreciation(5,700)	21,400	
Office equipment \$15,570		
Less accumulated depreciation(4,720)	10,850	
Total property, plant, and equipment		52,250
Total assets		\$266,560



## **Exhibit 10: Balance Sheet for TechSource** (continued)

Current liabilities:	
Accounts payable	\$ 14,466
Customer refunds payable	7,954
Note payable (current portion)	5,000
Salaries payable	1,140
Unearned rent	1,800
Total current liabilities	\$ 30,360
Long-term liabilities:	
Note payable (final payment due in ten years)	20,000
Total liabilities	\$ 50,360
Stockholders' Equity	
Common stock	\$ 25,000
Retained earnings	191,200
Total stockholders' equity	216,200
Total liabilities and stockholders' equity	\$266,560



#### **Exhibit 11: Statement of Cash Flows for TechSource**

#### TechSource Statement of Cash Flows For the Year Ended December 31, 20Y7

Cash flows from (used for) operating activities:

#### \$80,400 Net income..... Depreciation expense—store equipment ..... \$ 3,100 Depreciation expense—office equipment..... 2,490 Changes in noncash current operating assets and liabilities: (38,080)(2,450)Increase in inventory ..... (1,000)120 Decrease in office supplies ..... 350 Decrease in prepaid insurance ..... Increase in accounts payable ..... 7,650

Increase in customer refunds payable .....



Warren, Survey of Accounting, Ninth Edition. © 2021 Cengage. All Rights Reserved. May not be scanned, copied or duplicated, or posted to a publicly accessible website, in whole or in part.

500 (360)

(600)

(28,280)

\$52,120

# Exhibit 11: Statement of Cash Flows for TechSource (continued)

Cash flows from (used for) investing activities:		
Cash paid for store equipment	\$ (7,100)	
Cash paid for office equipment	_(5,570)	
Net cash flows from investing activities		(12,670)
Cash flows from (used for) financing activities:		
Cash paid on note payable	\$ (5,000)	
Cash paid as dividends	(18,000)	
Net cash flows from financing activities		(23,000)
Net increase in cash		\$ 16,450
Cash as of January 1, 20Y7		36,200
Cash as of December 31, 20Y7		\$ 52,650



## **Learning Objective 8**

Describe and illustrate the markup percent



## **Gross Profit Percent and Markup Percent**

Gross Profit Percent = Gross Profit ÷ Net Sales

Markup Percent = Gross Profit + Cost of Goods Sold



## **Gross Profit Percent and Markup Percent** (continued)

Data (in millions) taken from two recent years' financial statements of Walmart Inc.

	Year 2	Year 1
Sales	\$514,405	\$500,343
Cost of goods sold	(385,301)	(373,396)
Gross profit	\$129,104	\$126,947
	Year 2	Year 1
Markup percent:		
\$129,104 ÷ \$385,301	33.5%	
\$126,947 ÷ \$373,396		34.0%
Gross profit percent:		
\$129,104 ÷ \$514,405	25.1%	
\$126,947 ÷ \$500,343		25.4%



## **How Are Markup and Gross Profit Percent Related?**

Markup Percent = Gross Profit Percent × (Selling Price ÷ Cost)

Gross Profit Percent = Markup Percent × (Cost ÷ Selling Price)



# **End of Chapter 4**

