

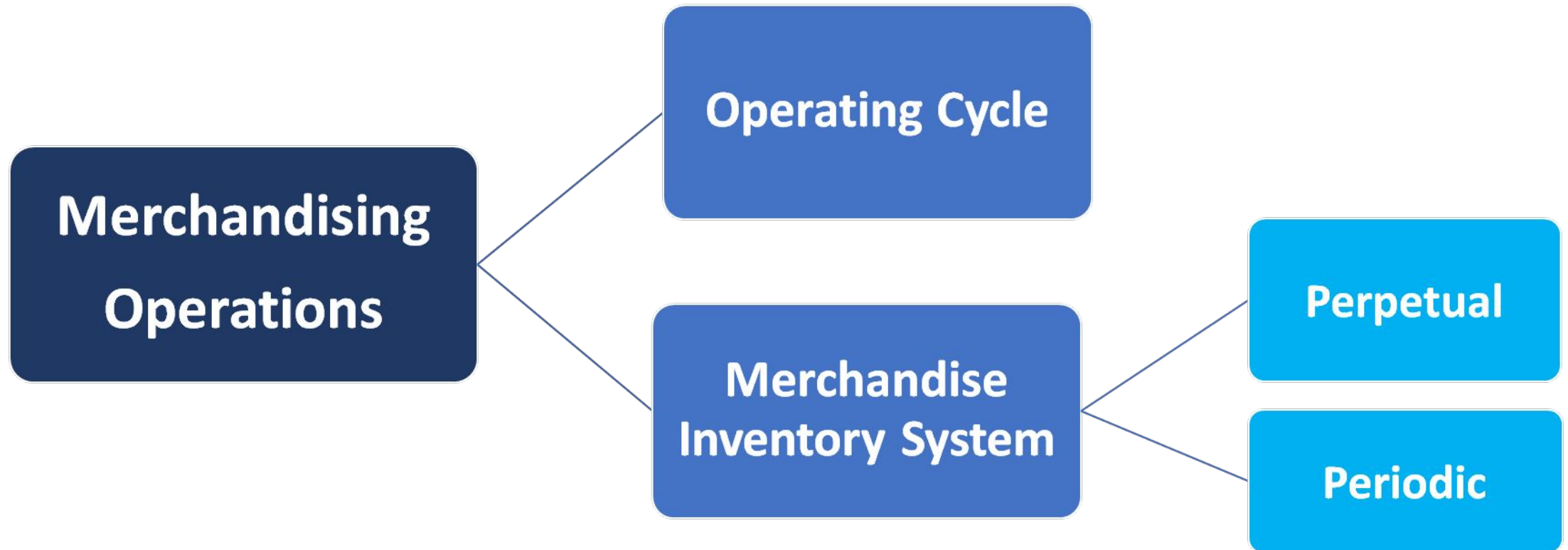
An aerial photograph of a stunning turquoise bay. The water is crystal clear, revealing a white sandy beach on the left side. Several small boats are scattered throughout the bay, and a larger white boat is visible in the lower center. The bay is surrounded by high, rugged, light-colored rock cliffs. The overall scene is bright and scenic.

Horngren's Accounting

# Merchandising Operations

Lecture Twelve  
Lisa, Li

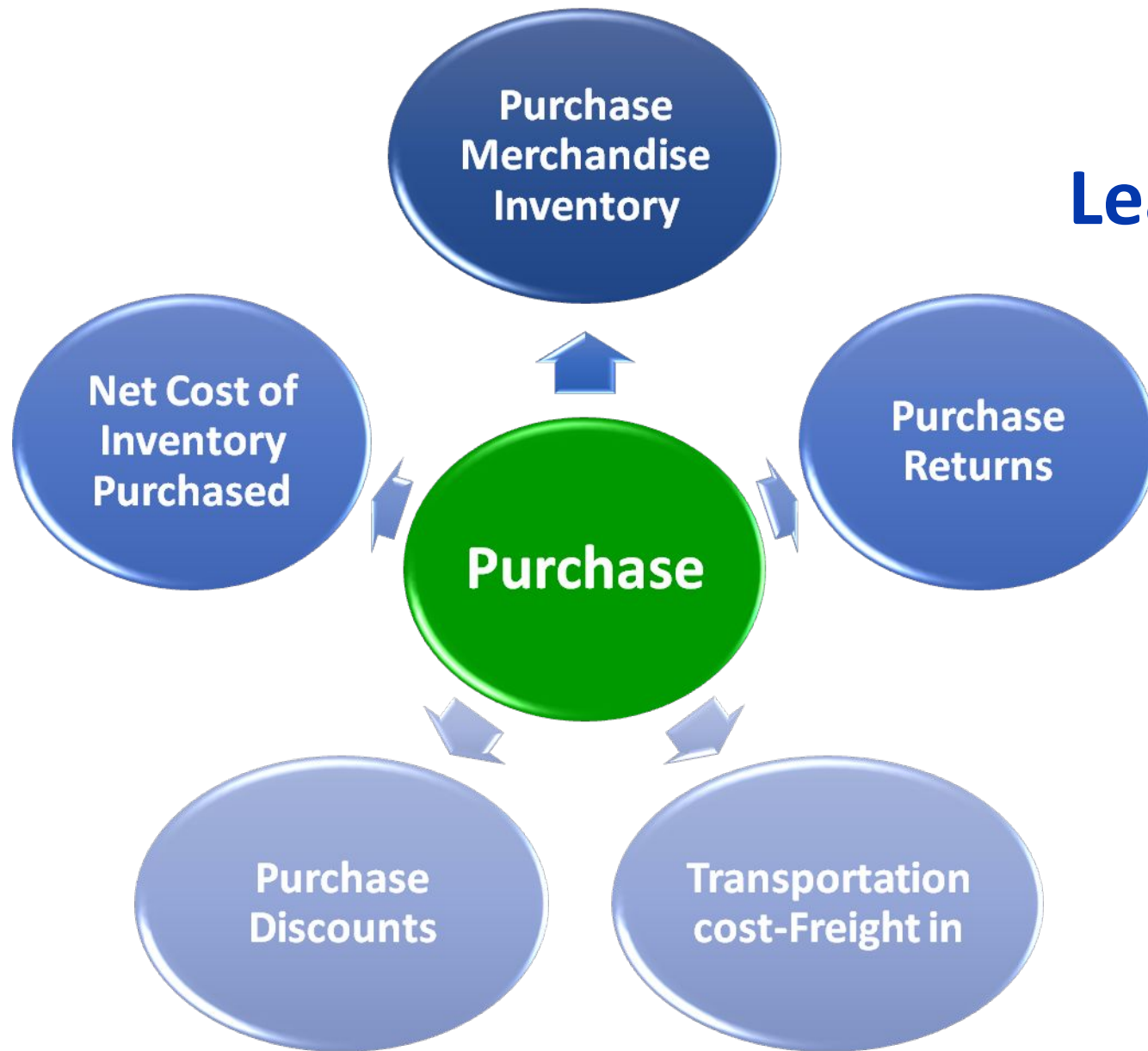
# Merchandising Operations- Objective 1







## Learning Objectives 2



Purchase of merchandise inventory using perpetual inventory system



## Learning Objectives 3

Account for the sale of merchandise inventory using a perpetual inventory system



# Homework

p306

## > Try It!

7. Click Computers has the following transactions in July related to the purchase of merchandise inventory.

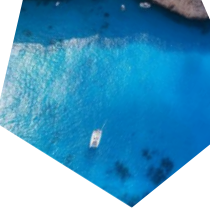
- 
- July 1 Purchase of \$20,500 worth of computers on account, terms of 2/10, n/30.  
3 Return of \$4,000 of the computers to the vendor.  
9 Payment made on account.
- 

Journalize the purchase transactions for Click Computers.

**Check your answer at the end of the chapter.**

# Homework

p306



| Date   | Accounts and Explanation                          | Debit  | Credit |
|--------|---|--------|--------|
| Jul. 1 | Merchandise Inventory                             | 20,500 |        |
|        | Accounts Payable                                  |        | 20,500 |
|        | <i>Purchased inventory on account.</i>            |        |        |
| 3      | Accounts Payable                                  | 4,000  |        |
|        | Merchandise Inventory                             |        | 4,000  |
|        | <i>Returned inventory to seller (vendor).</i>     |        |        |
| 9      | Accounts Payable (\$20,500 – \$4,000)             | 16,500 |        |
|        | Cash (\$16,500 – \$330)                           |        | 16,170 |
|        | Merchandise Inventory (\$16,500 × 0.02)           |        | 330    |
|        | <i>Paid within discount period net of return.</i> |        |        |

## Try It!

7. Click Computers has the following transactions in July related to the purchase of merchandise inventory.

- 
- July 1 Purchase of \$20,500 worth of computers on account, terms of 2/10, n/30.
  - 3 Return of \$4,000 of the computers to the vendor.
  - 9 Payment made on account.
- 

Journalize the purchase transactions for Click Computers.

**Check your answer at the end of the chapter.**



# Homework

p342

## **S5-5 Journalizing purchase and sales transactions**

Suppose Piranha.com sells 2,500 books on account for \$15 each (cost of these books is \$22,500), credit terms 2/15, n/60 on October 10, 2015, to The Textbook Store. One hundred of these books (cost \$900) were damaged in shipment, so Piranha.com later received the damaged goods from The Textbook Store as sales returns on October 13, 2015. The Textbook Store paid the balance to Piranha.com on October 22, 2015.

### **Requirements**

1. Journalize The Textbook Store's October 2015 transactions.
2. Journalize Piranha.com's October 2015 transactions.

# Homework

p342



## Accounting book for The Textbook Store

## Accounting book for Piranha(seller)

| Date    | Accounts and Explanation                         | Debit  | Credit |
|---------|--|--------|--------|
| Oct. 10 | Merchandise Inventory (2,500 × \$15)             | 37,500 |        |
|         | Accounts Payable                                 |        | 37,500 |
|         | <i>Purchased inventory on account</i>            |        |        |
| Oct. 13 | Accounts Payable (100 × \$15)                    | 1,500  |        |
|         | Merchandise Inventory                            |        | 1,500  |
|         | <i>Returned inventory to seller</i>              |        |        |
| Oct. 22 | Accounts Payable (\$37,500 – \$1,500)            | 36,000 |        |
|         | Cash (\$36,000 – \$720)                          |        | 35,280 |
|         | Merchandise Inventory (\$36,000 × 0.02)          |        | 720    |
|         | <i>Paid within discount period net of return</i> |        |        |

| Date    | Accounts and Explanation                  | Debit  | Credit |
|---------|---|--------|--------|
| Oct. 10 | Accounts Receivable (2,500 × \$15)        | 37,500 |        |
|         | Sales Revenue                             |        | 37,500 |
|         | <i>Sale on account</i>                    |        |        |
|         | Cost of Goods Sold                        | 22,500 |        |
|         | Merchandise Inventory                     |        | 22,500 |
|         | <i>Record cost of goods sold</i>          |        |        |
| Oct. 13 | Sales Returns and Allowances (100 × \$15) | 1,500  |        |
|         | Accounts Receivable                       |        | 1,500  |
|         | <i>Received returned goods</i>            |        |        |
|         | Merchandise Inventory                     | 900    |        |
|         | Cost of Goods Sold                        |        | 900    |
|         | <i>Placed goods back in inventory</i>     |        |        |
| Oct. 22 | Cash (\$36,000 – \$720)                   | 35,280 |        |
|         | Sales Discounts (\$36,000 × 0.02)         | 720    |        |
|         | Accounts Receivable (\$37,500 – \$1,500)  |        | 36,000 |





# Learning Objectives – Chapter 5

1. Describe merchandising operations and the two types of merchandise inventory systems
2. Account for the purchase of merchandise inventory using a perpetual inventory system
3. Account for the sale of merchandise inventory using a perpetual inventory system



# Learning Objectives – Chapter 5

4. Adjust and close the accounts of a merchandising business
5. Prepare a merchandiser's financial statements
6. Use the gross profit percentage to evaluate business performance



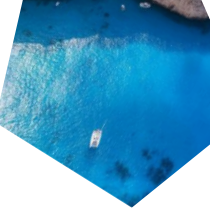


## Learning Objectives 3

Account for the sale of merchandise inventory using a perpetual inventory system







## 4. Transportation Cost - Freight Out

- The **freight in** is part of the inventory cost for the buyer.
- The **freight out** is a delivery expense to the seller.
- Smart Touch Learning pays \$30 to ship the June 21 sale to the customer.

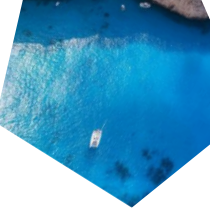
| Date    | Accounts and Explanation    | Debit | Credit |
|---------|-----------------------------|-------|--------|
| June 21 | Delivery Expense            | 30    |        |
|         | Cash                        |       | 30     |
|         | <i>Paid a freight bill.</i> |       |        |

# 5. Net Sales Revenue

For the year, Smart Touch Learning sells \$297,500 of merchandise inventory. They process \$11,200 of sales returns and allowances, and they award \$5,600 of sales discounts.

What is Net Sales Revenue for the year?

$$\text{Net Sales Revenue} = \text{Sales Revenue} - \text{Sales Returns and Allowances} - \text{Sales Discounts}$$



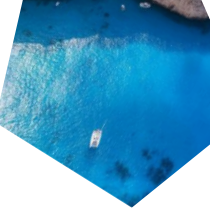
## 5. Net Sales Revenue

For the year, Smart Touch Learning sells \$297,500 of merchandise inventory. They process \$11,200 of sales returns and allowances, and they award \$5,600 of sales discounts.

**What is Net Sales Revenue for the year?**

|                                    |                   |
|------------------------------------|-------------------|
| Sales Revenue                      | \$ 297,500        |
| Less: Sales Returns and Allowances | 11,200            |
| Sales Discounts                    | 5,600             |
| Net Sales Revenue                  | <u>\$ 280,700</u> |





## 6. Gross Profit

- The difference between **Net Sales Revenues** and **Cost of Goods Sold**
- Indicates the amount available to cover operating expenses
- For this example, assume Smart Touch Learning's Cost of Goods Sold is \$199,500; its gross profit is calculated as follows:

|                          |                  |
|--------------------------|------------------|
| Net Sales Revenue        | \$ 280,700       |
| Less: Cost of Goods Sold | 199,500          |
| Gross Profit             | <u>\$ 81,200</u> |

# Practice Questions

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## > Try It!

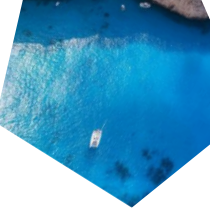
8. Click Computers has the following transactions in July related to the sale of merchandise inventory.

---

|         |  |
|---------|--|
| July 12 | Sold computers on account for \$8,000 to a customer, terms 3/15, n/30. The cost of the computers is \$4,800. |
| 21      | Accepted a \$1,000 return from a customer. The computer returned had a cost of \$600.                        |
| 26      | Received payment from customer on balance due.   |

---

Journalize the sales transactions for Click Computers.



# Practice Question Solutions

| Date    | Accounts and Explanation                                     | Debit | Credit |
|---------|--|-------|--------|
| Jul. 12 | Accounts Receivable  | 8,000 |        |
|         | Sales Revenue  |       | 8,000  |
|         | <i>Sale on account.</i>                                      |       |        |
| 12      | Cost of Goods Sold   | 4,800 |        |
|         | Merchandise Inventory  |       | 4,800  |
|         | <i>Recorded the cost of goods sold.</i>                      |       |        |
| 21      | Sales Returns and Allowances                                 | 1,000 |        |
|         | Accounts Receivable  |       | 1,000  |
|         | <i>Received returned goods.</i>                              |       |        |
| 21      | Merchandise Inventory  | 600   |        |
|         | Cost of Goods Sold   |       | 600    |
|         | <i>Placed goods back in inventory.</i>                       |       |        |
| 26      | Cash (\$7,000 – \$210)                                       | 6,790 |        |
|         | Sales Discounts (\$7,000 × 0.03)                             | 210   |        |
|         | Accounts Receivable (\$8,000 – \$1,000)                      |       | 7,000  |
|         | <i>Cash collection within discount period net of return.</i> |       |        |

## Try It!

8. Click Computers has the following transactions in July related to the sale of merchandise inventory.

- July 12 Sold computers on account for \$8,000 to a customer, terms 3/15, n/30. The cost of the computers is \$4,800.
- 21 Accepted a \$1,000 return from a customer. The computer returned had a cost of \$600.
- 26 Received payment from customer on balance due.

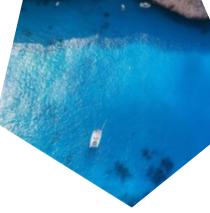
Journalize the sales transactions for Click Computers.





## Learning Objectives 4

Adjust and close the  
accounts of a merchandising  
business



# Adjusting Merchandise Inventory

- At the end of the period, actual inventory on hand may differ from the accounting records in perpetual inventory system.
- This difference can occur because of:
  - Theft
  - Damage
  - Errors
- 'Merchandise Inventory' account must be adjusted at the end of the period

# Adjusting Merchandise Inventory

- Smart Touch Learning's Merchandise Inventory account shows an unadjusted balance of \$31,530, with no theft or error. But on December 31, ST Learning counts the inventory on hand, and the total cost comes to only \$31,290.
- ST Learning records this adjusting entry for **inventory shrinkage**. And the entry brings Merchandise Inventory to its correct balance.

| Date    | Accounts and Explanation                   | Debit | Credit |
|---------|--|-------|--------|
| Dec. 31 | Cost of Goods Sold                         | 240   |        |
|         | Merchandise Inventory                      |       | 240    |
|         | <i>Adjustment for inventory shrinkage.</i> |       |        |

| Merchandise Inventory |               |     |              |
|-----------------------|---------------|-----|--------------|
| Unadj. Bal.           | 31,530        | 240 | Adj. Dec. 31 |
| <b>Bal.</b>           | <b>31,290</b> |     |              |

# Closing the Accounts of a Merchandiser

Exhibit 5-6 | Adjusted Trial Balance and Closing Entries

| SMART TOUCH LEARNING<br>Adjusted Trial Balance<br>December 31, 2015 |                   |                   |
|---|-------------------|-------------------|
| Account Title   | Balance           |                   |
|   | Debit             | Credit            |
| Bright, Capital   |                   | 51,550            |
| Bright, Withdrawals   | 10,000            |                   |
| Sales Revenue   |                   | 297,500           |
| Sales Returns and Allowances  | 11,200            |                   |
| Sales Discounts   | 5,600             |                   |
| Cost of Goods Sold  | 199,500           |                   |
| Salaries Expense  | 15,000            |                   |
| Rent Expense  | 13,000            |                   |
| Utilities Expense   | 11,300            |                   |
| Insurance Expense   | 6,500             |                   |
| Depreciation Expense  | 3,300             |                   |
| Advertising Expense   | 2,400             |                   |
| Interest Expense  | 2,300             |                   |
| Delivery Expense  | 1,600             |                   |
| Supplies Expense  | 600               |                   |
| Total   | <u>\$ 428,900</u> | <u>\$ 428,900</u> |

1. Close R to Income Summary
2. Close E and **contra-revenues(-R)** to Income Summary
3. Close Income Summary to Capital
4. Close Withdrawals to Capital



SMART TOUCH LEARNING  
Adjusted Trial Balance  
December 31, 2015

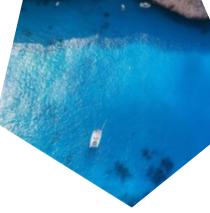
| Account Title                      | Balance           |                   |
|------------------------------------|-------------------|-------------------|
|                                    | Debit             | Credit            |
| Cash                               | \$ 8,810          |                   |
| Accounts Receivable                | 4,400             |                   |
| Merchandise Inventory              | 31,290            |                   |
| Office Supplies                    | 100               |                   |
| Prepaid Rent                       | 4,000             |                   |
| Furniture                          | 18,000            |                   |
| Accumulated Depreciation—Furniture |                   | \$ 2,100          |
| Building                           | 60,000            |                   |
| Accumulated Depreciation—Building  |                   | 1,750             |
| Land                               | 20,000            |                   |
| Accounts Payable                   |                   | 10,800            |
| Utilities Payable                  |                   | 2,500             |
| Salaries Payable                   |                   | 1,500             |
| Interest Payable                   |                   | 300               |
| Unearned Revenue                   |                   | 900               |
| Notes Payable                      |                   | 60,000            |
| Bright, Capital                    |                   | 51,550            |
| Bright, Withdrawals                | 10,000            |                   |
| Sales Revenue                      |                   | 297,500           |
| Sales Returns and Allowances       | 11,200            |                   |
| Sales Discounts                    | 5,600             |                   |
| Cost of Goods Sold                 | 199,500           |                   |
| Salaries Expense                   | 15,000            |                   |
| Rent Expense                       | 13,000            |                   |
| Utilities Expense                  | 11,300            |                   |
| Insurance Expense                  | 6,500             |                   |
| Depreciation Expense—Furniture     | 1,800             |                   |
| Depreciation Expense—Building      | 1,500             |                   |
| Advertising Expense                | 2,400             |                   |
| Interest Expense                   | 2,300             |                   |
| Delivery Expense                   | 1,600             |                   |
| Supplies Expense                   | 600               |                   |
| <b>Total</b>                       | <b>\$ 428,900</b> | <b>\$ 428,900</b> |

Temporary accounts that are closed.

# Closing in a Merchandiser



| Date    | Accounts and Explanation                    | Debit   | Credit  |
|---------|---|---------|---------|
| Dec. 31 | Sales Revenue                               | 297,500 |         |
|         | Income Summary                              |         | 297,500 |
|         | To close revenue.                           |         |         |
| 31      | Income Summary                              | 272,300 |         |
|         | Sales Returns and Allowances                |         | 11,200  |
|         | Sales Discounts                             |         | 5,600   |
|         | Cost of Goods Sold                          |         | 199,500 |
|         | Salaries Expense                            |         | 15,000  |
|         | Rent Expense                                |         | 13,000  |
|         | Utilities Expense                           |         | 11,300  |
|         | Insurance Expense                           |         | 6,500   |
|         | Depreciation Expense—Furniture              |         | 1,800   |
|         | Depreciation Expense—Building               |         | 1,500   |
|         | Advertising Expense                         |         | 2,400   |
|         | Interest Expense                            |         | 2,300   |
|         | Delivery Expense                            |         | 1,600   |
|         | Supplies Expense                            |         | 600     |
|         | To close expenses and other debit accounts. |         |         |
| 31      | Income Summary                              | 25,200  |         |
|         | Bright, Capital                             |         | 25,200  |
|         | To close Income Summary.                    |         |         |
| 31      | Bright, Capital                             | 10,000  |         |
|         | Bright, Withdrawals                         |         | 10,000  |
|         | To close withdrawals.                       |         |         |



# Closing the Accounts of a Merchandiser

- At this point, the Income Summary account has a \$25,200 balance.
- Next, we need to close Income Summary to the Capital account.

| Income Summary |         |          |             |
|----------------|---------|----------|-------------|
| Clos. 2        | 272,300 | 297,500  | Clos. 1     |
|                |         | 25,200   | Bal.        |
| Clos. 3        | 25,200  |          |             |
|                |         | <b>0</b> | <b>Bal.</b> |

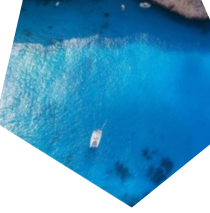
| Bright, Capital |        |               |             |
|-----------------|--------|---------------|-------------|
|                 |        | 51,550        | Adj. Bal.   |
| Clos. 4         | 10,000 | 25,200        | Clos. 3     |
|                 |        | <b>66,750</b> | <b>Bal.</b> |

| Bright, Withdrawals |          |        |         |
|---------------------|----------|--------|---------|
| Adj. Bal.           | 10,000   |        |         |
|                     |          | 10,000 | Clos. 4 |
| <b>Bal.</b>         | <b>0</b> |        |         |



## Learning Objectives 5

Prepare a merchandiser's  
financial statements



# Merchandiser's Financial Statements

## 1. Income Statement

- Single-Step Income Statement
- Multi-Step Income Statement (common approach)

## 2. Change in owner's equity

## 3. Balance Sheet

- The report format (A at top, L and O/E at bottom)
- The account format (A at left, L and O/E at right)

## 4. Cash flow Statement



# Single-Step Income Statement

| SMART TOUCH LEARNING         |            |                         |
|------------------------------|------------|-------------------------|
| Income Statement             |            |                         |
| Year Ended December 31, 2015 |            |                         |
| <b>Revenues</b>              |            |                         |
| Net Sales Revenue            |            | \$ 280,700              |
| <b>Expenses</b>              |            |                         |
| Cost of Goods Sold           | \$ 199,500 |                         |
| Salaries Expense             | 15,000     |                         |
| Rent Expense                 | 13,000     |                         |
| Utilities Expense            | 11,300     |                         |
| Insurance Expense            | 6,500      |                         |
| Depreciation Expense         | 3,300      |                         |
| Advertising Expense          | 2,400      |                         |
| Interest Expense             | 2,300      |                         |
| Delivery Expense             | 1,600      |                         |
| Supplies Expense             | 600        |                         |
| Total expenses               |            | <u>255,500</u>          |
| <b>Net income</b>            |            | <u><u>\$ 25,200</u></u> |

Income statement format that groups all revenues together and then lists and deducts all expenses together without calculating any subtotals.

# Multi-Step Income Statement

Multi-step I/S format that **contains subtotals to highlight significant relationships.**

- Net Sales Revenue
- Gross Profit (Gross Margin)
- Operating Income
- Net Income.

| SMART TOUCH LEARNING<br>Income Statement<br>Year Ended December 31, 2015 |            |
|--|------------|
| Sales Revenue  | \$ 297,500 |
| Less: Sales Returns and Allowances                                       | 11,200     |
| Sales Discounts  | 5,600      |
| Net Sales Revenue  | \$ 280,700 |
| Cost of Goods Sold   | 199,500    |
| Gross Profit   | 81,200     |
| Operating Expenses:  |            |
| Selling Expenses:  |            |
| Salaries Expense   | 8,100      |
| Rent Expense   | 7,300      |
| Advertising Expense  | 2,400      |
| Depreciation Expense   | 2,200      |
| Delivery Expense   | 1,600      |
| Total Selling Expenses   | 21,600     |
| Administrative Expenses:   |            |
| Utilities Expense  | 11,300     |
| Salaries Expense   | 6,900      |
| Insurance Expense  | 6,500      |
| Rent Expense   | 5,700      |
| Depreciation Expense   | 1,100      |
| Supplies Expense   | 600        |
| Total Administrative Expenses  | 32,100     |
| Total Operating Expenses   | 53,700     |
| Operating Income   | 27,500     |
| Other Revenues and (Expenses):   |            |
| Interest Expense   | (2,300)    |
| Total Other Revenues and (Expenses)                                      | (2,300)    |
| Net Income   | \$ 25,200  |

Gross Profit

Operating Income

Other Revenues and (Expenses) and Net Income

# Multi-Step Income Statement

**COGS:** is also called Cost of Sales. It represents a functional expense.

**Gross profit:** Net Sales Revenue minus COGS. It is the extra sale amount the company receives from the customer over what the company paid to the vendor.

| SMART TO UCH LEARNING            |                |                  |
|----------------------------------|----------------|------------------|
| Income Statement                 |                |                  |
| Year Ended December 31, 2015     |                |                  |
| Sales Revenue                    | \$ 297,500     |                  |
| Less: Sales Returns & Allowances | (11,200)       |                  |
| Sales Discounts                  | <u>(5,600)</u> |                  |
| Net Sales Revenue                |                | \$ 280,700       |
| Cost of Goods Sold               |                | <u>(199,500)</u> |
| Gross Profit                     |                | 81,200           |

Let's look at the rest of the Multi-Step Income Statement

# Multi-Step Income Statement

**Operating Expenses:** Expenses (other than COGS) that occur in the entity's major line of business.

- **Operating income:** Gross profit minus operating expenses . It measures the results of the entity's major ongoing activities (normal operations).

| SMART TO UCH LEARNING          |               |                 |
|--------------------------------|---------------|-----------------|
| Income Statement               |               |                 |
| Year Ended December 31, 2015   |               |                 |
| Gross Profit                   |               | \$ 81,200       |
| Operating Expenses             |               |                 |
| Selling Expenses               |               |                 |
| Salaries Expense - Selling     | 8,100         |                 |
| Rent Expense - Selling         | 7,300         |                 |
| Advertising Expense            | 2,400         |                 |
| Depreciation Expense - Selling | 2,200         |                 |
| Delivery Expense               | 1,600         |                 |
| Total Selling Expenses         | <u>21,600</u> |                 |
| Administrative Expenses        |               |                 |
| Utilities Expense              | 11,300        |                 |
| Salaries Expense - Admin       | 6,900         |                 |
| Insurance Expense              | 6,500         |                 |
| Rent Expense - Admin           | 5,700         |                 |
| Depreciation Expense - Admin   | 1,100         |                 |
| Supplies Expense               | 600           |                 |
| Total Administrative Expense   | <u>32,100</u> |                 |
| Total Expenses                 |               | <u>(53,700)</u> |
| Operating Income               |               | 27,500          |



# Multi-Step Income Statement

| SMART TO UCH LEARNING          |                |                         |
|--------------------------------|----------------|-------------------------|
| Income Statement               |                |                         |
| Year Ended December 31, 2015   |                |                         |
| Operating Income               |                | \$ 27,500               |
| Other Revenues & Expenses      |                |                         |
| Interest Expense               | <u>(2,300)</u> |                         |
| Total Other Revenue & Expenses |                | <u>(2,300)</u>          |
| Net Income                     |                | <u><u>\$ 25,200</u></u> |

- **Other revenues and expenses:** Revenues or expenses that are outside the normal, day-to-day operations of a business, such as interest expense, taxes, etc.
- Finally, **Net Income** is determined by subtracting Other Revenues and Expenses from Operating Income.

# Statement of Owner's Equity and the B/S

- A merchandiser's statement of owner's equity looks exactly like that of a service business.
- Merchandisers have an additional CA, Merchandise Inventory. Service businesses do not have it in B/S.

| SERVICE COMPANY<br>Balance Sheet (Partial)<br>December 31, 2015 |                  | MERCHANDISING COMPANY<br>Balance Sheet (Partial)<br>December 31, 2015 |                   |
|---|------------------|---|-------------------|
| <b>Assets</b>   |                  | <b>Assets</b>   |                   |
| Current Assets:   |                  | Current Assets:   |                   |
| Cash  | \$ 34,000        | Cash  | \$ 34,000         |
| Accounts Receivable   | 10,800           | Accounts Receivable   | 10,800            |
| Office Supplies   | 800              | Merchandise Inventory   | 60,000            |
| Prepaid Rent  | 2,100            | Office Supplies   | 800               |
| Total Current Assets  | <u>\$ 47,700</u> | Prepaid Rent  | 2,100             |
|   |                  | Total Current Assets  | <u>\$ 107,700</u> |

Merchandise Inventory is included in a merchandising company's current assets.



## Learning Objectives 6

Use the gross profit percentage to evaluate business performance

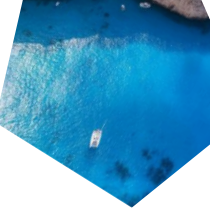
# Gross Profit Percentage

$$\text{Gross Profit Percentage} = \frac{\text{Gross Profit}}{\text{Net Sales Revenue}}$$

- Measures the profitability of each sales dollar.
- When this number is trending downward, it can indicate a significant problem.
- Useful profitability ratios

| SMART TOUCH LEARNING<br>Income Statement<br>Year Ended December 31, 2015 |            |            |
|--|------------|------------|
| Sales Revenue  | \$ 297,500 |            |
| Less: Sales Returns & Allowances   | (11,200)   |            |
| Sales Discounts  | (5,600)    |            |
| Net Sales Revenue  |            | \$ 280,700 |
| Cost of Goods Sold   |            | (199,500)  |
| Gross Profit   |            | 81,200     |





# Gross Profit Percentage—Example

|               | As of Sep. 24, 2011<br>(in thousands) | As of Sep. 25, 2010<br>(in thousands) |
|---------------|---------------------------------------|---------------------------------------|
| Net sales     | \$ 2,650,899                          | \$ 1,356,775                          |
| Cost of sales | 1,746,274                             | 931,017                               |

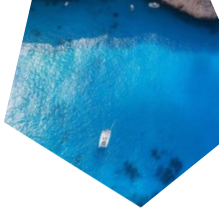
**Gross Profit Percentage**

$$= \text{Gross Profit} \div \text{Net Sales Revenue}$$

$$31.4\% = \$425,758 \div \$1,356,775$$

$$34.1\% = \$904,625 \div \$2,650,899$$

# Gross Profit Percentage—Example

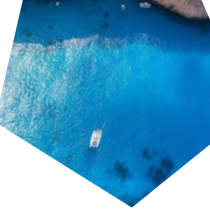


## E5-18 Computing missing amounts

Consider the following incomplete table of merchandiser's profit data. Calculate the missing amounts to complete the table.

|                              |           |            |           |        |
|------------------------------|-----------|------------|-----------|--------|
| Sales                        | \$ 89,500 | \$ 103,600 | \$ 66,200 | \$ (f) |
| Sales Returns and Allowances | 936       | (b)        | 1,600     | 894    |
| Sales Discounts              | 624       | 876        | 400       | 2,086  |
| Net Sales                    | 87,940    | 99,200     | (d)       | (g)    |
| Cost of Goods Sold           | 60,200    | (c)        | 40,500    | 75,800 |
| Gross Profit                 | (a)       | 34,020     | (e)       | 36,720 |

# Gross Profit Percentage—Example



## E5-18 Computing missing amounts

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| Cost of Goods Sold           | 60,200    | (c)        | 40,500    | 75,800 |
| Gross Profit                 | (a)       | 34,020     | (e)       | 36,720 |

- a. \$27,740     ( $\$87,940 - \$60,200$ )
- b. \$3,524     ( $\$103,600 - \$99,200 - \$876$ )
- c. \$65,180     ( $\$99,200 - \$34,020$ )

# Gross Profit Percentage—Example

## E5-18 Computing missing amounts

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a. \$27,740 ( $\$87,940 - \$60,200$ )

b. \$3,524 ( $\$103,600 - \$99,200 - \$876$ )

c. \$65,180 ( $\$99,200 - \$34,020$ )

d. \$64,200 ( $\$66,200 - \$1,600 - \$400$ )

e. \$23,700 ( $\$64,200 - \$40,500$ )

f. \$115,500 ( $\$112,520 + \$2,086 + \$894$ )

g. \$112,520 ( $\$75,800 + \$36,720$ )



# Practice Question

If an organization wanted to increase its Gross Profit, identify how the following accounts could influence this change.

- a. Sales
- b. Sales Returns and Allowances
- c. Cost of Goods Sold
- d. Sales Discounts

|                                  |                |                  |
|----------------------------------|----------------|------------------|
| Sales Revenue                    | \$ 297,500     |                  |
| Less: Sales Returns & Allowances | (11,200)       |                  |
| Sales Discounts                  | <u>(5,600)</u> |                  |
| Net Sales Revenue                |                | \$ 280,700       |
| Cost of Goods Sold               |                | <u>(199,500)</u> |
| Gross Profit                     |                | 81,200           |

# Practice Question

If an organization wanted to increase its Gross Profit, identify how the following accounts could influence this change.


- a. Sales
- b. Sales Returns and Allowances
- c. Cost of Goods Sold
- d. Sales Discounts

**a. Sales** – they should try to increase sales, a higher Sales will increase Gross Profit Percentage

**b. Sales Returns and Allowances** – they should try to decrease sales returns and allowances, a higher Sales Returns and Allowances will decrease Gross Profit Percentage

**c. Cost of Goods Sold** – they should try to decrease cost of goods sold, a higher Cost of Goods Sold will decrease Gross Profit Percentage

**d. Sales Discounts** – they should try to decrease sales discounts, a higher Sales Discount will decrease Gross Profit Percentage



Suppose Heat Miser Air Conditioner Company engaged in the following transactions during June of the current year:

- 
- Jun. 3 Purchased inventory on account with credit terms of 1/10, n/EOM, \$1,600.
  - 9 Returned 40% of the inventory purchased on June 3. It was defective.
  - 12 Sold goods for cash, \$920 (cost, \$550).
  - 15 Purchased goods for \$5,000 on account. Credit terms were 3/15, n/30.
  - 16 Paid a \$260 freight bill on goods purchased.
  - 18 Sold inventory for \$2,000 on account with credit terms of 2/10, n/30 (cost, \$1,180).
  - 22 Received returned goods from the customer of the June 18 sale, \$800 (cost, \$480).
  - 24 Paid supplier for goods purchased on June 15.
  - 28 Receive cash in full settlement of the account from the customer who purchased inventory on June 18.
  - 29 Paid the amount owed on account from the purchase of June 3.
- 

### Requirements

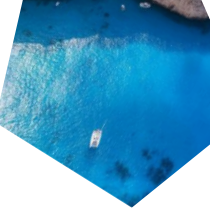
1. Journalize the preceding transactions. Assume Heat Miser uses a perpetual inventory system.
2. Set up T-accounts and post the journal entries to show the ending balances in the Merchandise Inventory and the Cost of Goods Sold accounts only.

## Requirement 1

| Date   | Accounts and Explanation                      | Debit | Credit |
|--------|---|-------|--------|
| Jun. 3 | Merchandise Inventory                         | 1,600 |        |
|        | Accounts Payable                              |       | 1,600  |
|        | <i>Purchased inventory on account.</i>        |       |        |
| 9      | Accounts Payable ( $\$1,600 \times 0.40$ )    | 640   |        |
|        | Merchandise Inventory                         |       | 640    |
|        | <i>Returned inventory to seller (vendor).</i> |       |        |
| 12     | Cash  | 920   |        |
|        | Sales Revenue                                 |       | 920    |
|        | <i>Cash sale.</i>                             |       |        |
| 12     | Cost of Goods Sold                            | 550   |        |
|        | Merchandise Inventory                         |       | 550    |
|        | <i>Recorded the cost of goods sold.</i>       |       |        |
| 15     | Merchandise Inventory                         | 5,000 |        |
|        | Accounts Payable                              |       | 5,000  |
|        | <i>Purchased inventory on account.</i>        |       |        |
| 16     | Merchandise Inventory                         | 260   |        |
|        | Cash  |       | 260    |
|        | <i>Paid a freight bill.</i>                   |       |        |

|         |  |       |       |
|---------|--|-------|-------|
| Jun. 18 | Accounts Receivable  | 2,000 |       |
|         | Sales Revenue  |       | 2,000 |
|         | <i>Sale on account.</i>                                      |       |       |
| 18      | Cost of Goods Sold   | 1,180 |       |
|         | Merchandise Inventory  |       | 1,180 |
|         | <i>Recorded the cost of goods sold.</i>                      |       |       |
| 22      | Sales Returns and Allowances                                 | 800   |       |
|         | Accounts Receivable  |       | 800   |
|         | <i>Received returned goods.</i>                              |       |       |
| 22      | Merchandise Inventory  | 480   |       |
|         | Cost of Goods Sold   |       | 480   |
|         | <i>Placed goods back in inventory.</i>                       |       |       |
| 24      | Accounts Payable   | 5,000 |       |
|         | Cash ( $\$5,000 - \$150$ )                                   |       | 4,850 |
|         | Merchandise Inventory ( $\$5,000 \times 0.03$ )              |       | 150   |
|         | <i>Paid within discount period.</i>                          |       |       |
| 28      | Cash ( $\$1,200 - \$24$ )                                    | 1,176 |       |
|         | Sales Discounts ( $\$1,200 \times 0.02$ )                    |       | 24    |
|         | Accounts Receivable ( $\$2,000 - \$800$ )                    |       | 1,200 |
|         | <i>Cash collection within discount period net of return.</i> |       |       |
| 29      | Accounts Payable ( $\$1,600 - \$640$ )                       | 960   |       |
|         | Cash   |       | 960   |
|         | <i>Paid after discount period net of return.</i>             |       |       |





## Requirement 2

| Merchandise Inventory |              |       |         |
|-----------------------|--------------|-------|---------|
| Jun. 3                | 1,600        | 640   | Jun. 9  |
| Jun. 15               | 5,000        | 550   | Jun. 12 |
| Jun. 16               | 260          | 1,180 | Jun. 18 |
| Jun. 22               | 480          | 150   | Jun. 24 |
| <b>Bal.</b>           | <b>4,820</b> |       |         |

| Cost of Goods Sold |              |     |         |
|--------------------|--------------|-----|---------|
| Jun. 12            | 550          | 480 | Jun. 22 |
| Jun. 18            | 1,180        |     |         |
| <b>Bal.</b>        | <b>1,250</b> |     |         |

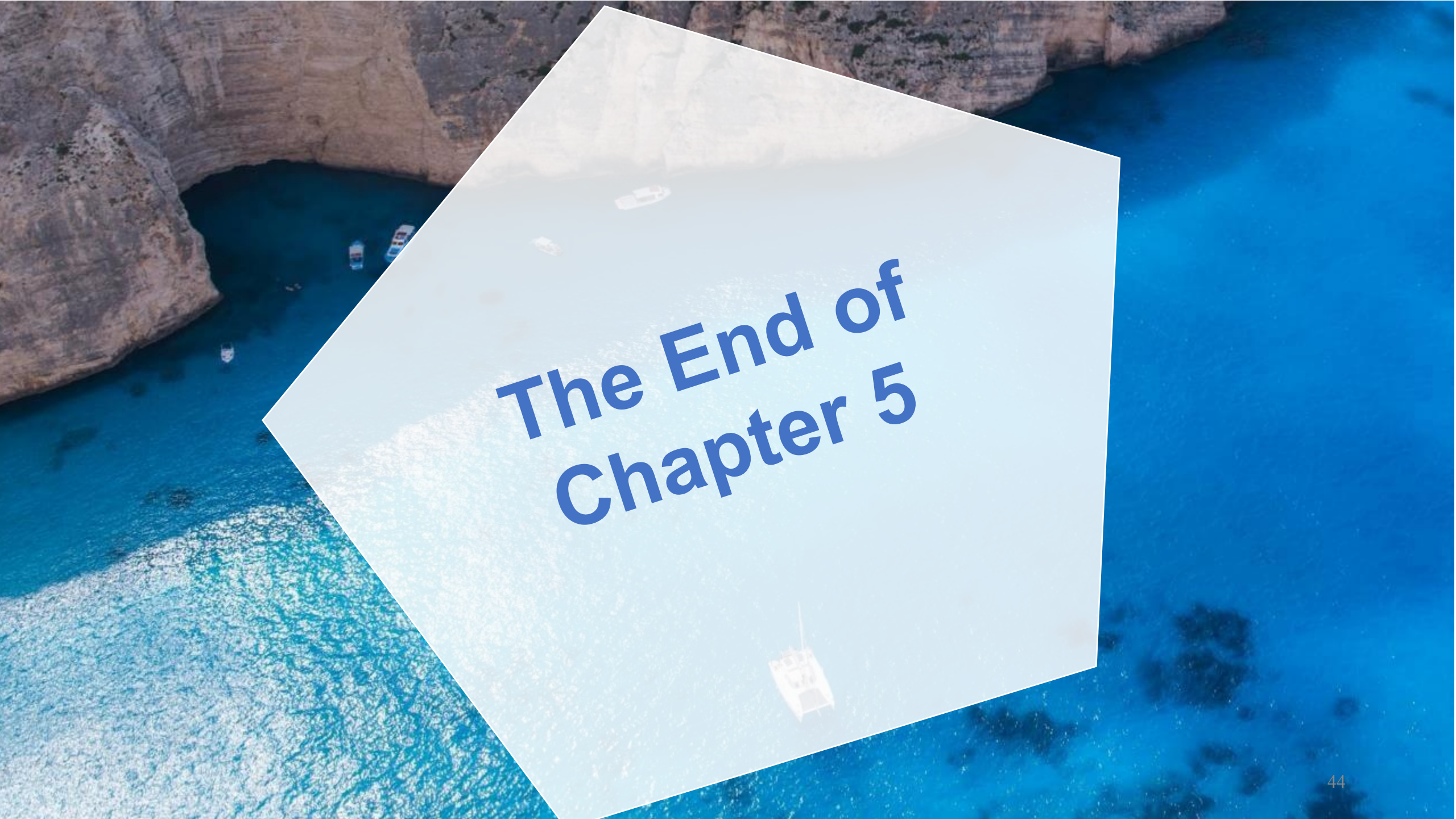
# Homework

The adjusted trial balance of Leading Business Systems at March 31, 2015, follows:

| LEADING BUSINESS SYSTEMS<br>Adjusted Trial Balance<br>March 31, 2015 |              |                |
|--|--------------|----------------|
| Account Title  | Balance      |                |
|  | Debit        | Credit         |
| Cash   | \$3,000      |                |
| Accounts Receivable  | 10,000       |                |
| Merchandise Inventory  | 40,000       |                |
| Office Supplies  | 7,500        |                |
| Equipment  | 45,000       |                |
| Accumulated<br>Depreciation—Equipment                                |              | \$18,000       |
| Accounts Payable   |              | 15,000         |
| Salaries Payable   |              | 2,500          |
| Notes Payable, long-term   |              | 11,100         |
| Wright, Capital  |              | 50,000         |
| Wright, Withdrawals  | 55,000       |                |
| Sales Revenue  |              | <u>300,000</u> |
| Sales Returns and Allowances   | <u>3,000</u> |                |
| Sales Discounts  | 2,500        |                |
| Cost of Goods Sold   | 180,000      |                |

## Requirements

1. Journalize the required closing entries at March 31, 2015.
2. Set up T-accounts for Income Summary; Wright, Capital; and Wright, Withdrawals. Post the closing entries to the T-accounts and calculate their ending balances.
3. How much was Leading's net income or net loss?
4. Prepare Leading's multi-step income statement for the year ended March 31, 2015.

An aerial photograph of a coastal bay. On the left, a large, light-colored rock formation features a natural sea cave. Several small white boats are anchored in the dark blue water of the cave. The surrounding water is a vibrant turquoise color, and a sandy beach is visible in the lower-left corner. A semi-transparent white diamond-shaped overlay is centered on the image, containing the chapter title.

# The End of Chapter 5