CHAPTER 2

ASSET AND LIABILITY VALUATION
AND INCOME RECOGNITION

Solutions to Questions, Exercises, and Problems, and Teaching Notes to Cases

2.1 Relevance versus Representational Faithfulness. Relevance describes accounting information that is timely and has the capacity to affect a user’s decisions based on the information; relevant asset valuations incorporate all available information, including the acquisition cost and subsequent developments. Relevant asset valuations may or may not be subjective; the existence of subjectivity in an asset valuation does not necessarily mean the valuation will not be reliable. Reliability is an attribute of accounting information that relates to the degree of verifiability of the reported amounts; representationally faithful asset valuations are supported by source documents, liquid market prices, or other credible evidence. There is limited room for subjectivity in these valuations. For example, reporting assets at acquisition cost provides management with fewer opportunities to bias the valuation compared to using current replacement costs or fair value inputs.

Examples:
Historical cost/relevant and representationally faithful: accounts receivable, fixed assets, and other assets with values that remain relatively stable

Historical cost/representationally faithful but less relevant: LIFO inventory layers, acquired research and development and other intangible assets, and real estate that has appreciated

Fair value/representationally faithful: Marketable equity securities, commodities, and financial assets traded in liquid markets

Fair value/relevant but less representationally faithful: Real estate valuations based on comparable analysis, internally generated intangible asset valuations, and pension plan assets invested in illiquid investments

2.2 Asset Valuation and Income Recognition. The important part of the question is that it focuses on net income (as opposed to comprehensive income). Changes in the valuation of assets generally result in an increase in shareholders’ equity (to maintain the balance of the accounting equation), which is accomplished through associated effects captured as part of net income. For example, sales generate cash or receivables, which increase both assets and net income. Similarly, recognition of depreciation expense decreases both assets and net income. However, certain changes in asset valuations result in corresponding amounts being temporarily held as part of “accumulated other comprehensive income” on the balance sheet (in

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Chapter 2
Asset and Liability Valuation
and Income Recognition

shareholders’ equity). Such changes would be part of Approach 2 as shown in Exhibit 2.3 and discussed in the text. In these situations, asset valuations do not have to relate to the recognition of net income (although such asset valuations relate to comprehensive income).

2.3 Trade-offs among Acceptable Accounting Alternatives. For the balance sheet, FIFO results in inventory that was purchased most recently before the fiscal year (or quarter) end remaining on the balance sheet. Relative to inventory purchases made earlier, those purchases are probably more closely aligned with prevailing prices at year end. As a consequence, relative to LIFO, FIFO more accurately captures the value of the inventory (close to replacement cost). For the income statement, the opposite inference is made. The income statement should pair the appropriate costs of revenues with the revenues recognized. Matching the current costs of inventory with the currently recognized revenues is accomplished with LIFO. Thus, depending on a user’s perspective, either FIFO or LIFO can be the preferable accounting method.

2.4 Income Flows versus Cash Flows. The analysis below demonstrates that the change in cash for the five years as a whole is $117,000. Subtracting the $100,000 cash contribution by the owners equals $17,000, which equals the amount of net income for the five years and the balance in retained earnings at the end of five years. Note that the cash outflow to purchase the machine occurs at the beginning of the first year, whereas depreciation on the machine occurs throughout the five years, and the remaining book value of the machine of $20,000 affects computation of the gain on sale at the end of five years. Thus, the statement about the equivalence of cash flows and earnings holds for this example and in general.

<table>
<thead>
<tr>
<th>Transaction or Event</th>
<th>Cash</th>
<th>Equipment</th>
<th>Common Stock</th>
<th>Net Income</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash Contributed by Owners .......</td>
<td>+ $ 100,000</td>
<td></td>
<td>+ $ 100,000</td>
<td></td>
</tr>
<tr>
<td>Purchase of Machine for Cash ......</td>
<td>– 100,000</td>
<td>+ $ 100,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Recognition of Rent Revenue .......</td>
<td>+ 125,000</td>
<td></td>
<td>+ $125,000</td>
<td></td>
</tr>
<tr>
<td>Recognition of Operating Expenses</td>
<td>– 30,000</td>
<td>– 80,000</td>
<td></td>
<td>– 30,000</td>
</tr>
<tr>
<td>Sale of Machine ...................</td>
<td>+ 22,000</td>
<td>– 20,000</td>
<td></td>
<td>+ 2,000</td>
</tr>
<tr>
<td>Totals ................................</td>
<td>$ 117,000</td>
<td>$ 0</td>
<td>$ 100,000</td>
<td>$ 17,000</td>
</tr>
</tbody>
</table>

2.5 Measurement of Acquisition Cost. Acquisition cost is $240,500 ($250,000 invoice price – $15,000 cash discount + $4,000 for the title + $1,500 to paint company’s name on the truck). The license fee of $800 and the insurance of $2,500 are not costs to prepare the truck for its intended use, but costs to operate the truck during its first year. Therefore, these latter two costs are prepayments that become expenses of the first year.
2.6 **Measurement of a Monetary Asset.**  
Balance, January 1, 2016: $10 million × 9.81815 (Part a) .......... $ 98,181,500  
Interest for 2016: 0.08 × $98,181,500 ............................................. 7,854,520  
Less Cash Received ................................................................. (10,000,000)  
Balance, December 31, 2016 (Part b) ........................................ $ 96,036,020  
Interest for 2017: 0.08 × $96,036,020 ............................................. 7,682,882  
Less Cash Received ................................................................. (10,000,000)  
Balance, December 31, 2017 (Part c) ........................................ $ 93,718,902

2.7 **Measurement of a Nonmonetary Asset.** American Airlines amortizes the $150 million over the five years of use. Accordingly, the acquisition cost of the landing rights is initially recognized at its historical cost of $150 million, but then it is valued at adjusted historical cost with each annual amortization of $30 million, which reduces the valuation ratably to a final adjusted historical cost of $0.

2.8 **Fair Value Measurements.**  
a. The stocks are Level 1 assets, assuming they are for public companies for which the prices of each share are available via closing quotes from one of the major exchanges.

b. Bonds are also likely Level 1 assets if they are publicly traded; however, if they are privately placed issues, they would be Level 2 assets because their values would be determined by reliable inputs such as market interest rates and yield curves.

c. Real estate is more likely comprised of Level 2 assets, given ready availability of real estate valuation data.

d. Timber investments are either Level 2 or Level 3 assets, depending on the availability of directly applicable current and future timber prices.

e. Private equity funds are typically invested in young, privately held start-up companies, and due to the illiquidity of such investments and difficulty in obtaining directly comparable asset prices, these would likely be Level 3 assets.

f. Illiquid asset-backed securities are, by definition, illiquid, and although various models exist for valuing manufactured securities (such as mortgage-backed securities), the inputs are generally well-placed guesses, making such assets Level 3.

2.9 **Computation of Income Tax Expense.**  
a. Taxes Currently Payable ................................................................. $ 50,000  
Plus Decrease in Deferred Tax Assets: $42,900 – $38,700 ............. 4,200  
Plus Increase in Deferred Tax Liabilities: $34,200 – $28,600 ....... 5,600  
Income Tax Expense ....................................................................... $ 59,800
b. Taxes Currently Payable................................................................. $ 50,000
   Plus Decrease in Deferred Tax Assets: $42,900 – $38,700......... 4,200
   Less Decrease in Deferred Tax Liability: $58,600 – $47,100 ...... (11,500)
   Income Tax Expense............................................................... $ 42,700

   In both Part a and Part b, the value of the deferred tax asset decreased, which means that the company utilized deferred tax assets to decrease taxes owed relative to the amount expensed. However, the difference lies in the change in the deferred tax liability. In Part a, the deferred tax liability increased, which occurs when the firm has larger deductions (lower income) on its tax return relative to amounts expensed (amounts recognized in income). The advantageous treatment of these amounts leads to lower current cash outflows for taxes than amounts recognized as income tax expense. For Part b, the situation is reversed. In Part b, the decrease in the deferred tax liability means that previous timing differences likely reversed, leading to higher cash payments required for current income tax payments relative to amounts recognized as income tax expense.

2.10 Computation of Income Tax Expense.
   a. Taxes Currently Payable................................................................. $ 35,000
      Less Increase in Deferred Tax Assets:
         Beginning of Year: $24,600 – $6,400 = $ 18,200
         End of Year: $27,200 – $7,200 = 20,000.......... $ 18,200
      Less Decrease in Deferred Tax Liabilities: $18,900 – $16,300..... (2,600)
      Income Tax Expense............................................................... $ 30,600
   
      b. Taxes Currently Payable................................................................. $ 35,000
         Less Increase in Deferred Tax Assets:
            Beginning of Year: $24,600 – $6,400 = $ 18,200
            End of Year: $27,200 – $4,800 = 22,400.......... (4,200)
         Less Decrease in Deferred Tax Liabilities: $18,900 – $16,300..... (2,600)
         Income Tax Expense............................................................... $ 28,200

2.11 Costs to Be Included in Historical Cost Valuation.
   The acquisition cost of the land is $210,000 ($200,000 + $7,500 + $2,500). The costs for building permits of $1,200 would be included in the historical cost of the restaurant building to be built.

   a. Valuation of the land at acquisition until sale of land: Land would be valued at acquisition cost of $100,000 initially, and would not change through 2018. In 2018, when the building is sold for $180,000, Walmart would recognize a gain of $80,000 on the income statement.
### 2016

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>100,000</td>
<td></td>
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<td></td>
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</tbody>
</table>

### 2018

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>180,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>100,000</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

#### 2016

- Land: 100,000
- Cash: 100,000

#### 2017

- No Entry

#### 2018

- Cash: 180,000
- Land: 100,000
- Gain on Sale of Land: 80,000

b. Valuation of the land at current market value and including market value changes each year in net income:

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>(100,000)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>100,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>50,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gain on Fair Market Value of Land</td>
<td>50,000</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### 2017

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land (30,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
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<tr>
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</tbody>
</table>

### 2018

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash 180,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Land (120,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
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</tbody>
</table>

**2016**

The land would initially be recognized at acquisition cost of $100,000. At the end of 2016, Walmart would remeasure the land at fair value and increase the asset by $50,000, which would be reflected on the income statement as “Gain on Fair Market Value of Land.”

- Land: 100,000
- Cash: 100,000
- Land: 50,000
- Gain on Fair Market Value of Land: 50,000

**2017**

Part of the end-of-year 2016 upward adjustment would be reversed to reflect the $30,000 decline in fair value of the land. Land would be decreased by $30,000 to $120,000, and Walmart would recognize a “Loss on Fair Market Value of Land” in the income statement.

- Loss on Fair Market Value of Land: 30,000
- Land: 30,000

**2018**

The firm would realize $180,000 of cash, derecognize the land—now valued at the 2017 fair value of $120,000, the difference being recognized as a $60,000 “Gain on Sale of Land.”

- Cash: 180,000
- Land: 120,000
- Gain on Sale of Land: 60,000
c. Valuation of the land at current market value but including unrealized gains and losses in accumulated other comprehensive income until sale of land:

### 2016

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cash (100,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Land 100,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Land 50,000</td>
<td></td>
<td>Unrealized Holding Gain or Loss – OCI 50,000</td>
</tr>
</tbody>
</table>

### 2017

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Land (30,000)</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Unrealized Holding Gain or Loss – OCI (30,000)</td>
</tr>
</tbody>
</table>

### 2018

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Cash 180,000</td>
<td></td>
<td>Gain on Sale of Land 80,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Land (120,000)</td>
<td></td>
<td>Unrealized Holding Gain or Loss – OCI (20,000)</td>
</tr>
</tbody>
</table>

2016

The land would initially be recognized at acquisition cost of $100,000. At the end of 2016, Walmart would remeasure the land at fair value and increase the asset by $50,000, which would also be reflected in AOCI as “Unrealized Holding Gain or Loss,” reducing shareholders’ equity.

\[
\begin{align*}
\text{Land} & \quad \text{..................} \quad 100,000 \\
\text{Cash} & \quad \text{..................} \quad 100,000 \\
\text{Land} & \quad \text{..................} \quad 50,000 \\
\text{Unrealized Holding Gain or Loss – OCI} & \quad \text{..................} \quad 50,000 \\
\end{align*}
\]
2017
Part of the end-of-year 2016 upward adjustment would be reversed to reflect the $30,000 decline in fair value of the land. Land would be decreased by $30,000 to $120,000, and the “Unrealized Holding Gain or Loss” sitting in AOCI in the equity section would also be reduced by $30,000, from $50,000 to $20,000.

Unrealized Holding Gain or Loss – OCI ........................................ 30,000
Land................................................................................ 30,000

2018
The fair value of the land at the end of 2018 is $180,000 (as evidenced by the price received upon sale). We can consider this effect in two ways. First, we could view Walmart as remeasuring the land to $180,000, which would mean that land is increased by $60,000 and “Unrealized Holding Gain or Loss” in OCI is also increased by $60,000, from $20,000 to $80,000. Then, the sale of the land would bring in $180,000 as cash (asset) and trigger derecognition of the land (from $180,000 to $0), and finally, the “Unrealized Holding Gain or Loss” that resides in the holding tank of AOCI in the equity section becomes realized, so Walmart would reclassified from ‘unrealized’ to ‘realized,’ the net effect being that “Unrealized Holding Gain or Loss” in AOCI is reduced from $80,000 to zero, and a “Gain on Sale of Land” would be recognized in the income statement. The second approach results in the same outcome, but views the changes in all four accounts simultaneously, with the journal entries as follows:

Cash..................................................................................... 180,000
Unrealized Holding Gain or Loss – OCI .................................. 20,000
Land.................................................................................. 120,000
Gain on Sale of Land..........................................................  80,000

d. Net income over sufficiently long time periods equals cash inflows minus cash outflows, other than cash transactions with owners. Walmart acquired the land in 2016 for $100,000 and sold it for $180,000 in 2018. Thus, the total effect on net income through the realization of the increase in the value of the land bought and sold is $80,000. The three different methods of asset valuation and income measurement recognize this $80,000 in different patterns over time, but the total is the same.

2.13 Effect of Valuation Method for Monetary Asset on Balance Sheet and Income Statement.

a. Valuation of the note at the present value of future cash flows using the historical market interest rate of 8% (Approach 1):
### 2018

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note Receivable</td>
<td>Land</td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>180,000</td>
<td>(100,000)</td>
<td></td>
</tr>
</tbody>
</table>

2019

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>Note Receivable</td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>100,939</td>
<td>(86,539)</td>
<td></td>
</tr>
</tbody>
</table>

2020

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>Note Receivable</td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>100,939</td>
<td>(93,461)</td>
<td></td>
</tr>
</tbody>
</table>

2018

Walmart would recognize an asset for the Note Receivable at its then present value of $180,000 (the cash equivalent), derecognize the land which remains recorded at historical cost of $100,000, and realize the difference of $80,000 as “Gain on Sale of Land.”

\[
\begin{align*}
\text{Note Receivable} & : 180,000 \\
\text{Land} & : 100,000 \\
\text{Gain on Sale of Land} & : 80,000
\end{align*}
\]

2019

Walmart would receive the cash payment of $100,939, recognize interest revenue of $14,400 \((0.08 \times 180,000)\), and the difference of $86,539 would reduce the historical value of the Note Receivable.

\[
\begin{align*}
\text{Cash} & : 100,939 \\
\text{Interest Revenue} & : 14,400 \\
\text{Note Receivable} & : 86,539
\end{align*}
\]
Walmart would receive the second cash payment of $100,939, recognize interest revenue of $7,478 \[0.08 \times ($180,000 \text{ } - \text{ } $86,539), + $1 \text{ for rounding}\], and the difference of $93,461 would reduce the historical value of the Note Receivable to 0.

\[
\begin{align*}
\text{Cash} & : 100,939 \\
\text{Interest Revenue} & : 7,478 \\
\text{Note Receivable} & : 93,461
\end{align*}
\]

b. Valuation of the note at the present value of future cash flows, adjusting the note to fair value upon changes in market interest rates and including unrealized gains and losses in net income (Approach 2):

### 2018

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities +</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note Receivable</td>
<td>180,000</td>
<td></td>
</tr>
<tr>
<td>Land</td>
<td>(100,000)</td>
<td></td>
</tr>
</tbody>
</table>

### 2019

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities +</th>
<th>Shareholders' Equity</th>
</tr>
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<tbody>
<tr>
<td>Cash</td>
<td>100,939</td>
<td></td>
</tr>
<tr>
<td>Note Receivable</td>
<td>(86,539)</td>
<td></td>
</tr>
<tr>
<td>Note Receivable</td>
<td>(1,699)</td>
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</table>

### 2020

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities +</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>100,939</td>
<td></td>
</tr>
<tr>
<td>Note Receivable</td>
<td>(91,762)</td>
<td></td>
</tr>
</tbody>
</table>

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2018
Walmart would recognize an asset for the Note Receivable at its then present value of $180,000 (the cash equivalent), derecognize the land which remains recorded at historical cost of $100,000, and realize the difference of $80,000 as “Gain on Sale of Land.”

Note Receivable................................................................. 180,000
  Land............................................................................. 100,000
  Gain on Sale of Land.................................................... 80,000

2019
Walmart would receive the cash payment of $100,939, recognize interest revenue of $14,400 (0.08 \times $180,000), and the difference of $86,539 would reduce the historical value of the Note Receivable. In addition, Walmart would recognize a loss on the receivable commensurate with the increase in interest rate. A “Loss on Note Receivable” of $1,699 [$91,762 – ($180,000 – $86,539)] would be recognized, and the value of the Note Receivable would be decreased by the same amount.

Cash................................................................................. 100,939
  Interest Revenue.......................................................... 14,400
  Note Receivable.......................................................... 86,539

Loss on Note Receivable .................................................... 1,699
  Note Receivable.......................................................... 1,699

2020
Walmart would receive the second cash payment of $100,939, recognize interest revenue of $9,177 (0.10 \times $91,762, plus an additional $1 due to rounding), and the difference of $91,762 would reduce the 2012 fair value of the Note Receivable to 0.

Cash................................................................................. 100,939
  Interest Revenue.......................................................... 9,177
  Note Receivable.......................................................... 91,762

c. Over sufficiently long time periods, net income equals cash inflows minus cash outflows, other than cash transactions with owners. Walmart receives $101,878 net in cash from purchasing the land for $100,000 and selling it for $201,878 ($100,939 \times 2). Problem 2.12 indicates that net income across 2016 to 2018 includes the $80,000 change in market value of the land as of the time of sale on December 31, 2018. The $21,878 difference between the cash received of $201,878 and the market value of the land on December 31, 2018, of $180,000 is income for 2019 and 2020. The valuation method in Part a uses the 8% interest rate applicable to this note on December 31, 2018, both to value the note and to recognize interest revenue for both years (acquisition cost valuation
of the asset, Approach 1 for income recognition). The valuation method in Part b uses the market interest rate for this note each year (8% for 2019 and 10% for 2020) to value the note and to recognize interest revenue and holding gains and losses (fair value for the asset, Approach 2 for income recognition). These two methods report the same total income but in a different pattern over time.


a. Assume for this part that SCCO accounts for the equipment using historical cost adjusted for depreciation and impairment losses.

<table>
<thead>
<tr>
<th></th>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders' Equity</th>
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<td></td>
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<tr>
<td>1</td>
<td>Equipment</td>
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</tr>
<tr>
<td></td>
<td>Cash</td>
<td>(100,000)</td>
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<thead>
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<th></th>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders' Equity</th>
<th></th>
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<tbody>
<tr>
<td></td>
<td>Accumulated Depreciation (25,000)</td>
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</table>

<table>
<thead>
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<td></td>
<td>Accumulated Depreciation (20,000)</td>
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</tbody>
</table>

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Chapter 2  
Asset and Liability Valuation  
and Income Recognition  

(5)  

\[
\begin{array}{c|c|c|c|c}
\text{Assets} & \text{Liabilities} & \text{Shareholders' Equity} \\
\hline
\text{Accumulated Depreciation} & \text{Liabilities} & \text{Contributed Capital (CC)} & \text{Accumulated Other Comprehensive Income (AOCI)} & \text{Retained Earnings (RE)} \\
\hline
(20,000) & & & & \\
\end{array}
\]

(6)  

\[
\begin{array}{c|c|c|c|c}
\text{Assets} & \text{Liabilities} & \text{Shareholders' Equity} \\
\hline
\text{Cash} & \text{Liabilities} & \text{Contributed Capital (CC)} & \text{Accumulated Other Comprehensive Income (AOCI)} & \text{Retained Earnings (RE)} \\
\hline
26,000 & & & & 6,000 \\
\text{Equipment} & & & &  \\
85,000 & & & & \\
\text{Accumulated Depreciation} & & & &  \\
65,000 & & & & \\
\end{array}
\]

(1) SCCO records the equipment at historical cost of $100,000 (and reduces cash by the same amount).

- Equipment: $100,000
- Cash: $100,000

(2) SCCO records depreciation expense of $25,000 [($100,000 – $0)/4] and adjusts the historical cost of the equipment by recognizing a contra-asset, Accumulated Depreciation, for the same amount. The adjusted historical cost of the equipment is now $75,000 ($100,000 – $25,000).

- Depreciation Expense: $25,000
- Accumulated Depreciation: $25,000

(3) The adjusted historical cost of the equipment is reduced by $15,000 ($60,000 – $75,000), and an “Impairment Loss” of the same amount is recognized on the income statement.

- Impairment Loss: $15,000
- Equipment: $15,000

(4) SCCO records depreciation expense of $20,000 [($60,000 – $0)/3] and adjusts the historical cost of the equipment by recognizing a contra-asset, Accumulated Depreciation, for the same amount. The adjusted historical cost of the equipment is now $40,000 ($100,000 – $25,000 – $15,000 – $20,000).

- Depreciation Expense: $20,000
- Accumulated Depreciation: $20,000
(5) Same as (4). The adjusted historical cost of the equipment is now $20,000 (in these formulas $100,000 – $25,000 – $15,000 – $20,000 – $20,000).

Depreciation Expense ......................................................... 20,000
Accumulated Depreciation ............................................. 20,000

(6) SCCO receives cash of $26,000 (asset increase), derecognizes both the equipment (asset decrease of $85,000) and accumulated depreciation (asset increase of $65,000), and the difference of $6,000 [$26,000 – ($85,000 – $65,000)] is recognized on the income statement as “Gain on Sale of Equipment.”

Cash................................................................. 26,000
Accumulated Depreciation............................................ 65,000
Equipment ......................................................... 85,000
Gain on Sale of Equipment ........................................ 6,000

b. Assume that SCCO accounts for the equipment using current market values adjusted for depreciation and impairment losses.

<table>
<thead>
<tr>
<th>(1)</th>
<th>Assets</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Equipment</td>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td></td>
<td>100,000</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cash (100,000)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>+</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Accumulated Depreciation (25,000)</td>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
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<th>Shareholders’ Equity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Equipment (15,000)</td>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
## Chapter 2
### Asset and Liability Valuation
### and Income Recognition

#### (4) Assets and Liabilities Valuation

<table>
<thead>
<tr>
<th></th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Accumulated Depreciation (20,000)</td>
<td></td>
</tr>
</tbody>
</table>

#### (5) Assets and Liabilities Valuation

<table>
<thead>
<tr>
<th></th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Equipment 8,000</td>
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</tr>
</tbody>
</table>

#### (6) Assets and Liabilities Valuation

<table>
<thead>
<tr>
<th></th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Accumulated Depreciation (24,000)</td>
<td></td>
</tr>
</tbody>
</table>

#### (7) Assets and Liabilities Valuation

<table>
<thead>
<tr>
<th></th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Equipment 2,000</td>
<td></td>
</tr>
</tbody>
</table>

#### (8) Assets and Liabilities Valuation

<table>
<thead>
<tr>
<th></th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Cash 26,000</td>
<td></td>
</tr>
<tr>
<td>Equipment (95,000)</td>
<td></td>
</tr>
<tr>
<td>Accumulated Depreciation 69,000</td>
<td></td>
</tr>
</tbody>
</table>

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(1) SCCO records the equipment at historical cost of $100,000 (and reduces cash by the same amount).

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>$100,000</td>
</tr>
<tr>
<td>Cash</td>
<td>$100,000</td>
</tr>
</tbody>
</table>

(2) SCCO records depreciation expense of $25,000 \([($100,000 – $0)/4]\) and adjusts the historical cost of the equipment by recognizing a contra-asset, Accumulated Depreciation, for the same amount. The adjusted historical cost of the equipment is now $75,000 \([($100,000 – $25,000)]\).

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depreciation Expense</td>
<td>$25,000</td>
</tr>
<tr>
<td>Accumulated Depreciation</td>
<td>$25,000</td>
</tr>
</tbody>
</table>

(3) The adjusted historical cost of the equipment is reduced by $15,000 \([($60,000 – $75,000)]\), and an “Impairment Loss” of the same amount is recognized on the income statement.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impairment Loss</td>
<td>$15,000</td>
</tr>
<tr>
<td>Equipment</td>
<td>$15,000</td>
</tr>
</tbody>
</table>

(4) SCCO records depreciation expense of $20,000 \([($60,000 – $0)/3]\) and adjusts the historical cost of the equipment by recognizing a contra-asset, Accumulated Depreciation, for the same amount. The adjusted historical cost of the equipment is now $40,000 \([($100,000 – $25,000 – $15,000 – $20,000)]\), reflecting an equipment balance of $85,000 \([($100,000 – $15,000)]\) and accumulated depreciation of $45,000 \([($25,000 + 20,000)]\).

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depreciation Expense</td>
<td>$20,000</td>
</tr>
<tr>
<td>Accumulated Depreciation</td>
<td>$20,000</td>
</tr>
</tbody>
</table>

(5) SCCO adjusts the historical cost of the equipment upward by $8,000 \([($48,000 – $40,000)]\). A “Gain on Change in Equipment Fair Value” is recognized on the income statement.

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Equipment</td>
<td>$8,000</td>
</tr>
<tr>
<td>Gain on Change in Equipment Fair Value</td>
<td>$8,000</td>
</tr>
</tbody>
</table>

(6) SCCO records depreciation expense of $24,000 \([($48,000–$0)/2]\) and adjusts the historical cost of the equipment by recognizing a contra-asset, Accumulated Depreciation, for the same amount. The adjusted historical cost of the equipment is now $24,000 \([($100,000 – $25,000 – $15,000 – $20,000 + $8,000 – $24,000)]\), reflecting an equipment balance of $93,000 \([($100,000 – $15,000 + $8,000)]\) and accumulated depreciation of $69,000 \([($25,000 + 20,000 + $24,000)]\).

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Depreciation Expense</td>
<td>$24,000</td>
</tr>
<tr>
<td>Accumulated Depreciation</td>
<td>$24,000</td>
</tr>
</tbody>
</table>
(7) SCCO adjusts the historical cost of the equipment upward by $2,000 ($26,000 – $24,000). A “Gain on Change in Equipment Fair Value” is recognized on the income statement. The value of the equipment rises to $95,000 ($93,000 + $2,000).

<table>
<thead>
<tr>
<th>Equipment</th>
<th>2,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gain on Change in Equipment Fair Value</td>
<td>2,000</td>
</tr>
</tbody>
</table>

(8) SCCO receives cash of $26,000 (asset increase) and derecognizes both the equipment (asset decrease of $95,000) and accumulated depreciation (asset increase of $69,000). Because the equipment has been annually marked-to-market (i.e., fair value), there is no gain upon the sale.

<table>
<thead>
<tr>
<th>Cash</th>
<th>26,000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accumulated Depreciation</td>
<td>69,000</td>
</tr>
<tr>
<td>Equipment</td>
<td>95,000</td>
</tr>
</tbody>
</table>

c. Total expenses over sufficiently long time periods equal cash outflows, other than cash transactions with owners. The negative $74,000 total net cash outflow for the equipment reflects the cash outflow to acquire the equipment of $100,000 offset by the cash inflow to sell the equipment for $26,000. When the depreciation expense, gain, and loss accounts under the retained earnings column are summed, the total also is negative $74,000, which is the amount that reduced income related to the purchase, use, and disposition of the equipment.

2.15 Effect of Valuation Method for Monetary Asset on Balance Sheet and Income Statement.

a. Assume that Alfa Romeo accounts for this note throughout the three years using its initial present value.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Automobile Inventory</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>(30,000)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Chapter 2
Asset and Liability Valuation
and Income Recognition

(2)

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & = 5,000 \\
\text{Notes Receivable} & = 40,000 \\
\text{Automobile Inventory} & = (30,000)
\end{align*}
\]

(3)

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & = 14,414 \\
\text{Notes Receivable} & = 12,814 \\
\text{Interest Revenue} & = 1,600
\end{align*}
\]

(4)

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & = 14,414 \\
\text{Notes Receivable} & = 13,327 \\
\text{Interest Revenue} & = 1,087
\end{align*}
\]

(5)

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & = 14,414 \\
\text{Notes Receivable} & = 13,859 \\
\text{Interest Revenue} & = 555
\end{align*}
\]

(1) The cash costs of the automobile increases inventory (and decreases cash).

Automobile Inventory ......................................................... 30,000
Cash ................................................................................ 30,000

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The sale of the car triggers recognition of sales on the income statement of $45,000 and recognition of two assets: cash of $5,000 and a receivable of $40,000. In addition, Automobile Inventory would be reduced for the cost of the automobile ($30,000) and Cost of Goods Sold in the same amount would be recognized on the income statement.

Cash................................................................. 5,000
Note Receivable .................................................. 40,000
Sales.................................................................... 45,000
Cost of Goods Sold................................................. 30,000
Automobile Inventory ........................................... 30,000

(3) Alfa Romeo receives the first annual payment of ($14,414), increasing cash, and recognizes interest revenue of $1,600 ($0.04 \times $40,000). The difference of $12,814 ($14,414 – $1,600) adjusts downward the value of the Note Receivable.

Cash................................................................. 14,414
Note Receivable .................................................. 12,814
Interest Revenue ................................................... 1,600

(4) Alfa Romeo receives the second annual payment of ($14,414), increasing cash, and recognizes interest revenue of $1,087 ($0.04 \times ($40,000 – $12,814)). The difference of $13,327 ($14,414 – $1,087) adjusts downward the value of the Note Receivable.

Cash................................................................. 14,414
Note Receivable .................................................. 13,327
Interest Revenue ................................................... 1,087

(5) Alfa Romeo receives the final annual payment of ($14,414), increasing cash, and recognizes interest revenue of $555 ($0.04 \times $13,859, plus an additional $1 for rounding). The difference of $13,859 ($14,414 – $555) adjusts downward the value of the Note Receivable to $0.

Cash................................................................. 14,414
Note Receivable .................................................. 13,859
Interest Revenue ................................................... 555

b. Assume that Alfa Romeo values this note receivable at fair value each year.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Contributed Capital (CC)</td>
</tr>
<tr>
<td>Automobile Inventory</td>
<td>30,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>(30,000)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Chapter 2

**Asset and Liability Valuation**

**and Income Recognition**

---

#### (2)

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>5,000</td>
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<td></td>
</tr>
<tr>
<td>Notes Receivable</td>
<td>40,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Automobile Inventory</td>
<td>(30,000)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Contributed Capital (CC)</strong></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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#### (3)

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<th>Shareholders' Equity</th>
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<tbody>
<tr>
<td>Cash</td>
<td>14,414</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notes Receivable</td>
<td>12,814</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Contributed Capital (CC)</strong></td>
</tr>
<tr>
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<td></td>
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#### (4)

<table>
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<th>Shareholders' Equity</th>
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<tbody>
<tr>
<td>Note Receivable</td>
<td>(384)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Contributed Capital (CC)</strong></td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### (5)

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>14,414</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notes Receivable</td>
<td>13,074</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td><strong>Contributed Capital (CC)</strong></td>
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<tr>
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</table>
### Chapter 2
Asset and Liability Valuation
and Income Recognition

#### 2-21

(6)

<table>
<thead>
<tr>
<th></th>
<th>Assets</th>
<th>Liabilities +</th>
<th>Shareholders’ Equity</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Note Receivable</td>
<td>(382)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
<td>Accumulated Other Comprehensive Income (AOCI)</td>
<td>Retained Earnings (RE)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Loss on Decline in Fair Value of Note Receivable</td>
</tr>
</tbody>
</table>

(7)

<table>
<thead>
<tr>
<th></th>
<th>Assets</th>
<th>Liabilities +</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Cash</td>
<td>14,414</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Notes Receivable</td>
<td>13,346</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Contributed Capital (CC)</td>
<td>Accumulated Other Comprehensive Income (AOCI)</td>
<td>Retained Earnings (RE)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Interest Revenue</td>
</tr>
</tbody>
</table>

(1) Same as (1) in Part a.

- Automobile Inventory ......................................................... 30,000
- Cash ................................................................. 30,000

(2) Same as (2) in Part a.

- Cash ................................................................................ 5,000
- Note Receivable ................................................................ 40,000
- Sales ............................................................................... 45,000
- Cost of Goods Sold .......................................................... 30,000
- Automobile Inventory ......................................................... 30,000

(3) Same as (3) in Part a.

- Cash ..................................................................................... 14,414
- Note Receivable ............................................................. 12,814
- Interest Revenue ........................................................... 1,600

(4) The rise in interest rates reduces the fair value of the Note Receivable by $384 ($26,802 – ($40,000 – $12,814)), and a “Loss on Decline in Fair Value of Note Receivable” is recognized on the income statement.

- Loss on Decline in Fair Value of Note Receivable .......... 384
- Note Receivable ............................................................. 384
(5) Alfa Romeo receives the second annual payment of ($14,414), increasing cash, and recognizes interest revenue of $1,340 (0.05 \times $26,802). The difference of $13,074 ($14,414 – $1,340) adjusts downward the value of the Note Receivable.

<table>
<thead>
<tr>
<th>Account</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>14,414</td>
</tr>
<tr>
<td>Note Receivable</td>
<td>13,074</td>
</tr>
<tr>
<td>Interest Revenue</td>
<td>1,340</td>
</tr>
</tbody>
</table>

(6) The second rise in interest rates reduces the fair value of the Note Receivable by $382 [$13,346 – ($26,802 – $13,074)], and a second “Loss on Decline in Fair Value of Note Receivable” is recognized on the income statement.

<table>
<thead>
<tr>
<th>Account</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loss on Decline in Fair Value of Note Receivable</td>
<td>382</td>
</tr>
<tr>
<td>Note Receivable</td>
<td>382</td>
</tr>
</tbody>
</table>

(7) Alfa Romeo receives the final annual payment of ($14,414), increasing cash, and recognizes interest revenue of $1,068 (0.08 \times $13,346). The difference of $13,346 ($14,414 – $1,068) adjusts downward the value of the Note Receivable to $0.

<table>
<thead>
<tr>
<th>Account</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>14,414</td>
</tr>
<tr>
<td>Note Receivable</td>
<td>13,346</td>
</tr>
<tr>
<td>Interest Revenue</td>
<td>1,068</td>
</tr>
</tbody>
</table>

c. Total expenses over sufficiently long time periods equal cash inflows minus cash outflows, other than cash transactions with owners. The $18,242 balance in retained earnings equals the cash inflows of $48,242 ($5,000 + $14,414 + $14,414 + $14,414) minus cash outflows of $30,000 for the cost of the automobile.

d. In Part a, the balance sheet suffers at the end of 2017 and 2018 because the note receivable is overvalued. The overvaluation is due to the market interest rate that Alfa Romeo ought to be realizing on the note being higher than what the company is actually realizing. Thus, the note is worth less than its adjusted acquisition cost (that is, the initial present value minus payments). In Part b, however, the fair valuation of the note receivable on the balance sheet results in volatility of the “loss” and “interest revenue” line items, reflecting the fair value adjustments.

2.16 Deferred Tax Assets.

a. Biosante Pharmaceuticals discloses that the amount of the net operating loss carryforwards at the end of 2008 is $62,542,000. This amount reflects the accumulated total of taxable losses (as opposed to taxable income) that Biosante has reported on its tax returns (possibly offset by taxable income, but this seems...
unlikely). In future years, Biosante could offset up to $62,542,000 of taxable income with the tax loss carryforwards, for which the company did not receive any tax benefit at the time they were reported. The amount of the deferred tax asset for these net operating loss carryforwards is $23,609,594. This is the income tax “shield” available due to the $62,542,000 tax loss carryforwards. The link between these two amounts is that the deferred tax asset represents the tax effect of the tax loss carryforwards. Generally, this text uses 35–40% as the tax effect of income and deductions. You can back into the rate that was assumed by Biosante. $23,609,594/$62,542,000 = 37.75%. Intuitively, for each dollar of taxable income the company might report in the future (up to $62,542,000), it would be able to save $0.3775 in tax because it would offset that dollar of taxable income with a dollar of its tax loss carryforwards.

b. The company has recorded a valuation allowance for the deferred tax asset equal to the entire amount of the deferred tax asset. This means that the company believes that it is “more likely than not” going to use its deferred tax assets before they expire. This implies that management is not optimistic about the company’s ability to generate future taxable income.

c. The increase in the valuation allowance was achieved by the following entry:

Income Tax Expense (28,946,363 – 21,818,084) .................. 7,128,279
Valuation Allowance ...................................................... 7,128,279

The income tax expense entry decreased net income; the valuation allowance entry decreased the deferred tax asset. However, note that the change in the valuation allowance exactly equals the increase in the deferred tax assets. This increase in deferred tax assets would have been achieved via a cumulative adjustment to the financial statements for the individual deferred tax assets, symbolically represented as follows:

Deferred Tax Asset (28,946,363 – 21,818,084) ................. 7,128,279
Income Tax Expense ...................................................... 7,128,279

As a result of the buildup of the deferred tax assets but the full reserve for this buildup, there was no impact on net income for fiscal 2008. Indeed, the company’s tax provision disclosed in the footnotes is as follows:

Taxes at U.S. Federal Statutory Rate .................. $(6,030,952)
State Taxes, Net of Federal Benefit .................. (568,133)
Research and Development Credits .................. (526,196)
Other, Net ............................................................... (2,998)
Change in Valuation Allowance .................. 7,128,279
Income Tax Expense ...................................................... $ 0
2.17 Interpreting Income Tax Disclosures.

a. ABC’s income before income taxes for financial reporting exceeded taxable income because the net deferred tax liability increased between the end of 2013 and the end of 2014. Also note that total income tax expense exceeds income taxes currently payable, so ABC deferred some tax payments to later years.

b. Income before income taxes for financial reporting exceeded taxable income because the net deferred tax liability increased between the end of 2013 and the end of 2014. In addition, total income tax expense exceeded income taxes currently payable.

c. The deferral of tax payments in 2013 and 2014 results in an addition to net income of $208 million and $94 million, respectively, when cash flow from operations is computed. ABC did not pay as much income taxes as the subtraction for income tax expense in the income statement would suggest.

d. ABC recognizes insurance expense earlier for financial reporting than for tax reporting, giving rise to a deferred tax asset for the future savings in income taxes when actual losses materialize. The decline in the deferred tax asset for self-insured benefits between the end of 2012 and the end of 2013 indicates that ABC paid out more in actual claims during 2013 than it recognized as an expense. The increase in the deferred tax asset for self-insured benefits between the end of 2013 and the end of 2014 indicates that ABC recognized more expense than it paid in actual claims during 2014.

e. ABC recognizes these costs as expenses earlier for financial reporting than for tax reporting, giving rise to a deferred tax asset for the future income taxes savings when it sells the inventory items. The decline in the deferred tax assets for inventory between the end of 2012 and the end of 2013 suggests that inventories declined during 2013, resulting in a larger expense for tax reporting than for financial reporting. The increase in the deferred tax assets for inventory between the end of 2013 and the end of 2014 suggests that inventories increased during 2014.

f. The deferred tax asset related to the health care obligation indicates that ABC has recognized more expenses cumulatively for financial reporting than for payments made to the health care plan. The slight increase in the deferred tax assets for postretirement health care between the end of 2012 and the end of 2013 indicates that ABC grew the number of employees, improved health care benefits, or experienced increased health care costs during 2013. The decrease in the deferred tax assets for postretirement health care between the end of 2013 and the end of 2014 suggests a decline in the number of employees, lower health care benefits, or lower health care costs. The deferred tax liability related to pension indicates that ABC has contributed larger amounts cumulatively to its pension fund than it has recognized as expenses for financial reporting. The
g. The deferred tax asset related to uncollectible accounts indicates that ABC recognizes losses for uncollectibles earlier for financial reporting than for tax reporting. The deferred tax asset indicates the future savings in income taxes the firm will realize when it writes off actual uncollectible accounts. The increasing amount for this deferred tax asset is consistent with growth in sales.

h. The deferred tax liability indicates that ABC recognizes depreciation earlier for tax reporting than for financial reporting. The increasing amounts for this deferred tax liability suggest that ABC increased its capital expenditures each year and therefore had more depreciable assets in the early years of their lives, when accelerated depreciation exceeds straight-line depreciation, than it has depreciable assets in the later years of their lives, when straight-line depreciation exceeds accelerated depreciation.

2.18 Interpreting Income Tax Disclosures.

a. In 2008, the deferred income tax provision is positive, whereas in 2007, it is negative. This shows that income before taxes exceeded taxable income in 2008, but the reverse was true for 2007.

b. During 2008, the deferred tax liability increased from $110 million to $495 million. Because this increase was associated with a deferred income tax provision of $385 million but no associated tax payment for this amount was made, this increase will appear on the statement of cash flows as a positive adjustment to net income. In 2007, the opposite is true, although the 2006 balance sheet amount of deferred tax liabilities in the footnote disclosure is not available. However, it is not needed because the components of the provision are such that the deferred provision was negative, indicating that the company reported higher taxable income in 2007 than income before taxes.

c. The premiums collected from customers go immediately into taxable income, but they do not get reported as financial income until ratably over the period in which customers have purchased legal insurance. Thus, PPD has paid taxes on these amounts although they have not been reported as financial reporting income. In the future, when PPD recognizes the revenue currently deferred, financial reporting income will increase for these amounts; however, there will be no associated taxable income for these amounts. As a consequence, the taxes already paid on the amounts deferred represent an asset of PPD, and they are categorized appropriately as deferred tax assets on the balance sheet.

d. The explanation for why the deferred tax effect of deferred costs shows up as a liability is complementary to the explanation for deferred revenues in Part c above. When PPD pays costs for acquiring customers, they are able to deduct
these amounts. However, when these amounts are subsequently reported as expenses for financial reporting purposes, income before taxes are reduced, yet there is no associated deduction for tax reporting purposes; thus, taxable income will be higher than income before taxes. Accordingly, these amounts represent a future tax liability and are categorized as deferred tax liabilities.

e. Accelerated depreciation deductions, all else equal, reduce current taxable income and taxes payable. However, because total tax depreciation and financial reporting depreciation will equal over the life of an asset, in future years when straight-line depreciation exceeds accelerated depreciation, PPD will show higher taxable income relative to financial reporting income. Accordingly, the excess depreciation deductions already reported are associated with a deferred tax liability.

f. Although the limited income tax footnote disclosures can provide only limited insight into the overall reported growth and profitability (because there are many other aspects of reported profitability than are revealed in the footnote), certain items are suggestive. For example, a buildup in deferred tax liabilities for property and equipment suggests that a company is continuing to make investments in property and equipment, which generally occurs when managers are bullish on future prospects. Similarly, a buildup in the deferred tax asset for deferred revenues would indicate that the company is generating growth in sales. For PPD, the deferred tax liability for property and equipment grew, but the deferred tax asset for deferred revenue fell in 2008. Thus, these signals are mixed. The greatest difficulty posed by deducing growth and profitability from the income tax footnote for PPD is that a large component of the deferred tax effects on its balance sheet reflects the mix of cash versus accrual mix of the business. If PPD realizes an increase in the frequency of customers paying in advance with cash relative to paying ratably, this could accompany an increase, a decrease, or a flat pattern in sales. However, the income tax footnote is frequently useful for quickly identifying accrual accounting differences from cash flows. A quick glance at PPD’s tax footnote reveals that it (i) defers costs of acquiring new customers and (ii) defers revenues. Given judgment often required in such deferrals, analysts can use the tax footnote as a quick way to identify possible accounting quality issues.

2.19 Interpreting Income Tax Disclosures.

a. Nike’s income before income taxes (also referred to as book income) exceeded taxable income for 2007 because total income tax expense exceeded income taxes currently payable (that is, $708.4 million income tax expense versus $674.1 currently payable).

b. Opposite 2007, the taxable income for 2008 was higher than income before taxes, made clear by the fact that income tax expense is approximately $300 million less than income taxes currently payable ($619.5 million versus $920.1
million). In addition, during 2008, Nike switched from a net deferred tax liability position to a net deferred tax asset position, consistent with the company paying a substantial sum for taxes relative to amounts currently expensed.

c. The adjustment to net income to compute cash flow from operations will be a subtraction because the cash payment is larger than income tax expense.

d. Nike recognizes an estimated expense or revenue reduction earlier for financial reporting than for tax reporting. The delayed reduction in taxable income gives rise to the payment of taxes in early years and a reduction in taxes in later years, resulting in a deferred tax asset in between. The increasing deferred tax assets for both sales returns and allowance for doubtful accounts indicate that Nike’s sales grew each year (assuming a level mix of returns and allowances and doubtful accounts estimates).

e. Nike recognizes deferred compensation expense earlier for financial reporting than for tax reporting, giving rise to a future tax benefit that the firm will realize when it actually pays out cash to employees in later years. The increase in the deferred tax asset for deferred compensation suggests that Nike increase the number of employees or the deferred compensation benefits.

f. The amount of the deferred tax asset for foreign loss carryforwards increased significantly each year, suggesting that some foreign units continued to operate at a net loss. Normally, an increase in such deferred tax assets would be expected to trigger an increase in the valuation allowance as well. However, the valuation allowance decreased slightly from 2007 to 2008. This indicates Nike’s greater confidence that there is a reduced probability of not being able to realize the benefits of these tax loss carryforwards, perhaps due to better prospects of future profits that can be offset by tax loss carryforwards for tax reporting purposes.

g. Apparently, when Nike acquired Umbro, it was able to deduct a large number of these amounts currently, although for financial reporting, the company is required to recognize intangible assets. The result is that Nike faces a deferred tax liability for the amounts currently residing on the balance sheet as “expenses waiting to happen.”

h. Nike recognizes foreign-source income earlier for financial reporting than for tax reporting, thereby delaying the payment of taxes and creating a deferred tax liability in the meantime.

i. Some of Nike’s foreign units operate at a net loss, giving rise to a deferred tax asset, while other units operate at a net profit, giving rise to a deferred tax liability.
2.20 Analyzing Transactions.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>+50,000</td>
<td></td>
</tr>
<tr>
<td>Common Stock and Paid-in-Capital</td>
<td>+50,000</td>
<td></td>
</tr>
</tbody>
</table>

Cash................................................................. 50,000
Common Stock and Paid-in-Capital...................... 50,000

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building</td>
<td>+35,000</td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>(5,000)</td>
<td></td>
</tr>
<tr>
<td>Note Payable</td>
<td>+30,000</td>
<td></td>
</tr>
</tbody>
</table>

Building......................................................... 35,000
Cash ............................................................... 5,000
Note Payable............................... 30,000

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inventory</td>
<td>+40,000</td>
<td></td>
</tr>
<tr>
<td>Accounts Payable</td>
<td>+40,000</td>
<td></td>
</tr>
</tbody>
</table>

Inventory..................................................... 40,000
Accounts Payable....................... 40,000

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounts Receivable</td>
<td>+65,000</td>
<td></td>
</tr>
<tr>
<td>Sales</td>
<td>+65,000</td>
<td></td>
</tr>
<tr>
<td>Inventory</td>
<td>(30,000)</td>
<td></td>
</tr>
<tr>
<td>Cost of Goods Sold</td>
<td>(30,000)</td>
<td></td>
</tr>
</tbody>
</table>

Accounts Receivable.............. 65,000
Sales............................................................ 65,000
Cost of Goods Sold................ 30,000
Inventory................................. 30,000

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compensation Expense</td>
<td>(15,000)</td>
<td></td>
</tr>
<tr>
<td>Cash</td>
<td>+15,000</td>
<td></td>
</tr>
</tbody>
</table>

Compensation Expense.............. 15,000
Cash......................................................... 15,000
f. 

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>(45,000)</td>
<td>Accounts Receivable</td>
<td>(45,000)</td>
<td>45,000</td>
</tr>
</tbody>
</table>

Cash ............................................................... 45,000
Accounts Receivable ...................................... 45,000


g. 

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case</td>
<td>(28,000)</td>
<td>Accounts Payable</td>
<td>(28,000)</td>
<td>28,000</td>
</tr>
</tbody>
</table>

Accounts Payable ........................................... 28,000
Cash ........................................................... 28,000


h. 

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accumulated Depreciation</td>
<td>(7,000)</td>
<td>Wages Payable</td>
<td>+4,000</td>
<td>7,000</td>
</tr>
</tbody>
</table>

Depreciation Expense ........................................ 7,000
Accumulated Depreciation .............................. 7,000


i. 

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>(2,400)</td>
<td>Wages Payable</td>
<td>+4,000</td>
<td>4,000</td>
</tr>
</tbody>
</table>

Compensation Expense ..................................... 4,000
Wages Payable .............................................. 4,000


j. 

<table>
<thead>
<tr>
<th>Assets</th>
<th>=</th>
<th>Liabilities</th>
<th>+</th>
<th>Shareholders' Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interest Expense</td>
<td>(2,400)</td>
<td>Cash</td>
<td>(2,400)</td>
<td>2,400</td>
</tr>
</tbody>
</table>

Interest Expense ............................................. 2,400
Cash .......................................................... 2,400
k.  

\[
\begin{array}{c|c|c|c|c}
\text{Assets} & \text{Liabilities} & \text{Shareholders' Equity} \\
\hline
\text{(1,440)} & \text{Deferred Tax Liability} & \text{+1,200} & \text{RE} \\
\hline
\text{Cash} & \text{Deferred Tax Liability} & \text{+1,200} & \text{RE} \\
\hline
\end{array}
\]

Income Tax Expense: 2,640
Cash: 1,440
Deferred Tax Liability: 1,200

Sales: $65,000
Cost of Goods Sold: $30,000
Compensation Expense: $15,000

Depreciation Expense: $7,000
Interest Expense: $2,400

\[
\begin{align*}
\text{Income before Taxes} & = \text{Sales} - \text{Cost of Goods Sold} - \text{Compensation Expense} - \text{Depreciation Expense} - \text{Interest Expense} \\
& = $65,000 - $30,000 - $15,000 - $7,000 - $2,400 \\
& = $6,600 \\
\text{Income Tax Expense} & = 0.40 \times $6,600 \\
& = $2,640
\end{align*}
\]

\[
\begin{align*}
\text{Income before Taxes} & = $6,600 \\
\text{Income Tax Expense} & = 0.40 \times $6,600 \\
\text{Current Taxes Payable} & = $1,440 \\
$1,200 & = $2,640 - $1,440
\end{align*}
\]

2.21 Analyzing Transactions.

(1) The answer to this part is based on rules in effect for financial statements for years beginning before December 15, 2017. After that date, the available-for-sale category which requires OCI treatment will no longer exist, and gains and losses will appear on the income statement.

\[
\begin{array}{c|c|c|c|c|c|c}
\text{Assets} & \text{Liabilities} & \text{Shareholders' Equity} \\
\hline
\text{Marketable Equity Securities} & \text{Cash} & \text{RE} \\
\hline
\text{+100,000} & \text{+100,000} & \text{+100,000} \\
\text{(100,000)} & \text{(100,000)} & \text{(100,000)} \\
\hline
\end{array}
\]

Marketable Equity Securities: 100,000
Cash: 100,000

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### b.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marketable Equity Securities</td>
<td>(10,000)</td>
<td>Unrealized Holding Gain or Loss—OCI (10,000)</td>
</tr>
</tbody>
</table>

Unrealized Holding Gain or Loss—OCI ..................... 10,000
Marketable Equity Securities .............................. 10,000

### c.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred Tax Asset</td>
<td>+4,000</td>
<td>Unrealized Holding Gain or Loss—OCI +4,000</td>
</tr>
</tbody>
</table>

Deferred Tax Asset ............................................. 4,000
Unrealized Holding Gain or Loss—OCI ..................... 4,000

### d.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>+94,000</td>
<td>Unrealized Holding Gain or Loss—AOCI +10,000</td>
</tr>
<tr>
<td>Marketable Equity Securities</td>
<td>(90,000)</td>
<td>Equity Securities (6,000)</td>
</tr>
</tbody>
</table>

Cash ............................................................ 94,000
Loss on Marketable Equity Securities .................. 6,000
Unrealized Holding Gain or Loss—AOCI .............. 10,000
Marketable Equity Securities ............................ 90,000

### e.

<table>
<thead>
<tr>
<th>Assets</th>
<th>Liabilities</th>
<th>Shareholders’ Equity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cash</td>
<td>+2,400</td>
<td>Unrealized Holding Income Tax Expense +2,400</td>
</tr>
<tr>
<td>Deferred Tax Asset</td>
<td>(4,000)</td>
<td>Gain or Loss—AOCI +4,000</td>
</tr>
</tbody>
</table>

Unrealized Holding Gain or Loss—AOCI ............... 4,000
Cash ............................................................... 2,400
Deferred Tax Asset ............................................. 4,000
Income Tax Expense ........................................... 2,400
Chapter 2
Asset and Liability Valuation
and Income Recognition

(2)

a.

\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Accounts Receivable} & = & +500,000 \\
\text{Sales} & = & +500,000 \\
\end{array}
\]

\[
\begin{array}{ccc}
\text{Accounts Receivable} & = & 500,000 \\
\text{Sales} & = & 500,000 \\
\end{array}
\]

b.

\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Inventory} & = & (400,000) \\
\text{Cost of Goods Sold} & = & \text{Inventory} + \text{Cost of Goods Sold} \\
\text{Bad Debt Expense} & = & \text{Allowance for Uncollectible Accounts} \\
\end{array}
\]

\[
\begin{array}{ccc}
\text{Inventory} & = & 400,000 \\
\text{Cost of Goods Sold} & = & 400,000 \\
\text{Bad Debt Expense} & = & 10,000 \\
\text{Allowance for Uncollectible Accounts} & = & 10,000 \\
\text{Warranty Reserve} & = & \text{Warranty Expense} \\
\end{array}
\]

c.

\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Allowance for Uncollectible Accounts} & = & (10,000) \\
\text{Warranty Reserve} & = & +20,000 \\
\text{Warranty Expense} & = & \text{Warranty Reserve} \\
\end{array}
\]

\[
\begin{array}{ccc}
\text{Warranty Reserve} & = & 20,000 \\
\text{Warranty Expense} & = & 20,000 \\
\end{array}
\]

d.

\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Accounts Receivable} & = & 3,000 \\
\text{Allowance for Uncollectible Accounts} & = & +3,000 \\
\end{array}
\]

\[
\begin{array}{ccc}
\text{Allowance for Uncollectible Accounts} & = & 3,000 \\
\text{Accounts Receivable} & = & 3,000 \\
\end{array}
\]

e.

\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & = & (8,000) \\
\text{Warranty Reserve} & = & (8,000) \\
\end{array}
\]

\[
\begin{array}{ccc}
\text{Warranty Reserve} & = & 8,000 \\
\text{Cash} & = & 8,000 \\
\end{array}
\]
### g.

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & \quad (35,600) \\
\text{Deferred Tax Asset} & \quad +7,600 \\
\text{Income Tax Expense} & \quad 28,000 \\
\text{Deferred Tax Asset} & \quad 7,000 \\
\text{Cash} & \quad 35,600 \\
\end{align*}
\]

\[
\begin{align*}
35,600 &= 0.40 \times (500,000 - 400,000 - 3,000 - 8,000) \\
7,600 &= 0.40 \times (10,000 + 20,000 - 3,000 - 8,000)
\end{align*}
\]

### (3)

#### a.

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Bonds Investment} & \quad +68,058 \\
\text{Cash} & \quad (68,058) \\
\text{Bond Investment} & \quad 68,058 \\
\text{Cash} & \quad 68,058 \\
\end{align*}
\]

\[
5,445 = 0.08 \times 68,058
\]

#### b.

\[
\begin{align*}
\text{Assets} & = \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & \quad (2,178) \\
\text{Income Tax Expense} & \quad (2,178) \\
\end{align*}
\]

\[
\begin{align*}
2,178 & = 0.08 \times 68,058 \\
2,178 & = 2,178
\end{align*}
\]
Chapter 2
Asset and Liability Valuation
and Income Recognition

\[ \text{d.} \]
\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Bond Investment} & + & 5,880 \\
\text{Interest Revenue} & + & 5,880 \\
\end{array}
\]

\[ 5,880 = 0.08 \times 73,503 \]

\[ \text{e.} \]
\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & + & 2,352 \\
\text{Interest Revenue} & + & 2,352 \\
\end{array}
\]

\[ \text{f.} \]
\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & + & 83,683 \\
\text{Deferred Tax Asset} & (79,383) & \\
\text{Gain on Sale of Bonds} & + & 4,300 \\
\end{array}
\]

\[ 79,383 = 68,058 + 5,445 + 5,880 \]

\[ \text{g.} \]
\[
\begin{array}{ccc}
\text{Assets} & = & \text{Liabilities} + \text{Shareholders' Equity} \\
\text{Cash} & (1,720) & \\
\text{Income Tax Expense} & + & 1,720 \\
\end{array}
\]

\[ \text{Income Tax Expense} = 1,720 \]

\[ \text{Cash} = 1,720 \]
Integrative Case 2.1: Walmart

a. Book income before income taxes was smaller than taxable income for fiscal 2015 because total income tax expense ($6,558 million) was smaller than the current tax provision ($7,584 million). Another way to respond is simply to note that deferred tax expense was less than zero (a tax benefit), indicating that the company had larger expenses on the books (smaller book income) than deductions on the tax return. The company deferred tax deductions to the future (causing a higher current taxable income).

b. Walmart will report a subtraction from net income when computing cash flow from operations in fiscal 2015 because it paid a smaller amount of income taxes relative to the amount reported as income tax expense in the income statement. This is illustrated by the following journal entry (assume all current taxes have been paid in cash; amounts in millions):

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount (in millions)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Income tax expense</td>
<td>6,558</td>
</tr>
<tr>
<td>Deferred taxes</td>
<td>1,026</td>
</tr>
<tr>
<td>Cash</td>
<td>7,584</td>
</tr>
</tbody>
</table>

Net income is computed by subtracting $6,558 million income tax expense from pretax income. If we did not subtract $1,026 million in the statement of cash flows, we would be overstating net cash inflows from operations because more than $6,558 million was paid out. (Side note: If some cash was not paid out, then income taxes payable would increase and would be added back to obtain cash flow from operations along with any other working capital liability that increased; e.g., accounts payable.)

c. When Walmart collects cash from customers who purchase gift cards and pay the Sam’s Club membership fee, the company must report these amounts as taxable income immediately. Revenue from gift cards is not recognized in financial reporting income until they are tendered at stores (or deemed to have been lost). Sam’s Club fees are not recognized as revenue until time passes. The company pays taxes on these amounts up front, which results in a deferred tax asset. When Walmart actually recognizes the revenue in book income, there will be no corresponding taxable income recognized in that year’s tax filings, so taxes owed will be less than tax expense on the income statement.

d. The valuation allowance reduces deferred tax assets to their realizable amounts. Walmart has deferred tax assets (some of them probably from loss carryforwards and some not) in certain foreign jurisdictions. The valuation allowance generally exists due to the uncertainty of their realization. Presumably, there are restrictions on the use of such net operating losses to offset future taxes, so Walmart’s management has determined that a portion of such deferred tax assets is “more likely than not” going to be utilized. When the valuation allowance goes down, income tax expense goes down and net income goes up.
e. Depreciation recognized each year and cumulatively for tax reporting exceeded
depreciation recognized for financial reporting. Walmart likely has more
depreciable assets in the later years of their depreciable lives when accelerated
depreciation exceeds straight-line depreciation than it has depreciable assets in the
earlier years of their lives when straight-line depreciation exceeds accelerated
depreciation. The decreasing amount of deferred tax liabilities related to
depreciation-related temporary differences suggests that Walmart has decreased its
capital expenditures during fiscal 2015 as compared to fiscal 2014. In fact,
examining its statement of cash flows, CAPEX declined in each period.