CHAPTER 2

Note: The letter A indicated for a question, exercise, or problem means that the question, exercise, or problem relates to a chapter appendix.

ANSWERS TO QUESTIONS

- 1. At the acquisition date, the information available (and through the end of the measurement period) is used to estimate the expected total consideration at fair value. If the subsequent stock issue valuation differs from this assessment, the *Exposure Draft (SFAS 1204-001)* expected to replace *FASB Statement No. 141R* specifies that equity should not be adjusted. The reason is that the valuation was determined at the date of the exchange, and thus the impact on the firm's equity was measured at that point based on the best information available then.
- 2. Pro forma financial statements (sometimes referred to as "as if" statements) are financial statements that are prepared to show the effect of planned or contemplated transactions.
- 3. For purposes of the goodwill impairment test, all goodwill must be assigned to a reporting unit. Goodwill impairment for each reporting unit should be tested in a two-step process. In the first step, the fair value of a reporting unit is compared to its carrying amount (goodwill included) at the date of the periodic review. The fair value of the unit may be based on quoted market prices, prices of comparable businesses, or a present value or other valuation technique. If the fair value at the review date is less than the carrying amount, then the second step is necessary. In the second step, the carrying value of the goodwill is compared to its implied fair value. (The calculation of the implied fair value of goodwill used in the impairment test is similar to the method illustrated throughout this chapter for valuing the goodwill at the date of the combination.)
- 4. The expected increase was due to the elimination of goodwill amortization expense. However, the impairment loss under the new rules was potentially larger than a periodic amortization charge, and this is in fact what materialized within the first year after adoption (a large impairment loss). If there was any initial stock price impact from elimination of goodwill amortization, it was only a short-term or momentum effect. Another issue is how the stock market responds to the goodwill impairment charge. Some users claim that this charge is a non-cash charge and should be disregarded by the market. However, others argue that the charge is an admission that the price paid was too high, and might result in a stock price decline (unless the market had already adjusted for this overpayment prior to the actual writedown).

ANSWERS TO BUSINESS ETHICS CASE

a and b. The board has responsibility to look into anything that might suggest malfeasance or inappropriate conduct. Such incidents might suggest broader problems with integrity, honesty, and judgment. In other words, can you trust any reports from the CEO? If the CEO is not fired, does this send a message to other employees that ethical lapses are okay? Employees might feel that top executives are treated differently.

ANSWERS TO EXERCISES

Exercise 2-1

Receivables Inventory Plant and Equipment	228,000 396,000 540,000	
Land	660,000	
Goodwill (\$2,154,000 - \$1,824,000)	330,000	
Liabilities		594,000
Cash		1,560,000
Receivables	228,000	
Inventory	396,000	
Plant and Equipment	540,000	
Land	660,000	
Liabilities		594,000
Cash		990,000
Gain on Business Combination (\$1,230,000 - \$990,000)		240,000
	Plant and Equipment Land Goodwill (\$2,154,000 - \$1,824,000) Liabilities Cash Receivables Inventory Plant and Equipment Land Liabilities Cash	Inventory396,000Plant and Equipment540,000Land660,000Goodwill (\$2,154,000 - \$1,824,000)330,000Liabilities228,000Cash228,000Inventory396,000Plant and Equipment540,000Liabilities540,000Liabilities660,000Liabilities660,000

Exercise 2-2	
Cash	\$680,000
Receivables	720,000
Inventories	2,240,000
Plant and Equipment (net) (\$3,840,000 + \$720,000)	4,560,000
Goodwill	120,000
Total Assets	<u>\$8,320,000</u>
Liabilities	1,520,000
Common Stock, \$16 par (\$3,440,000 + (.50 × \$800,000))	3,840,000
Other Contributed Capital (\$400,000 + \$800,000)	1,200,000
Retained Earnings	1,760,000
Total Equities	<u>\$8,320,000</u>

Entries on Petrello Company's books would be:

Cash	200,000	
Receivables	240,000	
Inventory	240,000	
Plant and Equipment	720,000	
Goodwill *	120,000	
Liabilities		320,000
Common Stock (25,000 × \$16)		400,000
Other Contributed Capital ($$48 - 16) × 25,000		800,000

* $(\$48 \times 25,000) - [(\$1,480,000 - (\$800,000 - \$720,000) - \$320,000]$ = \$1,200,000 - [\$1,480,000 - \$80,000 - \$320,000] = \$1,200,000 - \$1,080,000 = \$120,000

Exercise 2-3

Accounts Receivable		231,000	
Inventory		330,000	
Land		550,000	
Buildings and Equipment		1,144,000	
Goodwill		848,000	
Allowance for Uncollectible Accounts (\$231,00	00 - \$198,000)		33,000
Current Liabilities			275,000
Bonds Payable			450,000
Premium on Bonds Payable (\$495,000 - \$450,0	00)		45,000
Preferred Stock $(15,000 \times \$100)$			1,500,000
Common Stock $(30,000 \times \$10)$			300,000
Other Contributed Capital ($$25 - 10) \times 30,000			450,000
Cash			50,000
Cost paid (\$1,500,000 + \$750,000 + \$50,000) =			\$2,300,000
Fair value of net assets (198,000 + 330,000 + 550,000	0 + 1,144,000 - 275,000 - 4	495,000) =	1,452,000
Goodwill =			\$848,000
Exercise 2-4			
Cash		96,000	
Receivables		55,200	
Inventory		126,000	
Land		198,000	
Plant and Equipment		466,800	
Goodwill*		137,450	
Accounts Payable		,	44,400
Bonds Payable			480,000
Premium on Bonds Payable**			45,050
Cash			510,000
			,
** Present value of maturity value, 12 periods @ 4%:	0.6246 × \$480,000 =	\$299,8	08
Present value of interest annuity, 12 periods @ 4%:	9.38507 × \$24,000 =	225,24	42
Total present value		525,0	
Par value		480,0	
Premium on bonds payable		\$ 45,0	
*Cash paid		\$510,0	
Less: Book value of net assets acquired (\$897,600 – \$	\$44,400 – \$480,000)	<u>(373,2</u>	,
Excess of cash paid over book value		136,8	00
Increase in inventory to fair value	(15,600)		
Increase in land to fair value	(28,800)		
Increase in bond to fair value	<u>45,050</u>		

increase in bond to fair value	45,050
Total increase in net assets to fair value	650
Goodwill	<u>\$137,450</u>

Exercise 2-5

Current Assets Plant and Equipment Goodwill Liabilities Cash Liability for Contingent Consideration	960,000 1,440,000 336,000 216,000 2,160,000 360,000
Exercise 2-6	
The amount of the contingency is \$500,000 (10,000 shares at \$50 per share)	
Part A Goodwill Paid-in-Capital for Contingent Consideration	500,000 500,000
Part BPaid-in-Capital for Contingent Consideration Common Stock (\$10 par) Paid-In-Capital in Excess of Par	500,000 100,000 400,000
Platz Company does not adjust the original amount recorded as equity.	
Exercise 2-7	
 (c) Cost (8,000 shares @ \$30) Fair value of net assets acquired Excess of cost over fair value (goodwill) 	\$240,000 <u>228,800</u> <u>\$ 11,200</u>
2. (c) Cost (8,000 shares @ \$30) Fair value of net assets acquired (\$90,000 + \$242,000 - \$56,000)	\$240,000 _276,000

Exercise 2-8

Excess of fair value over cost (gain)

Current Assets	362,000	
Long-term Assets (\$1,890,000 + \$20,000) + (\$98,000 + \$5,000)	2,013,000	
Goodwill *	395,000	
Liabilities		119,000
Long-term Debt		491,000
Common Stock $(144,000 \times \$5)$		720,000
Other Contributed Capital (144,000 \times (\$15 - \$5))		1,440,000

\$ 36,000

* $(144,000 \times \$15) - [\$362,000 + \$2,013,000 - (\$119,000 + \$491,000)] = \$395,000$

Total shares issued	$\left(\frac{\$700,000}{\$5}+\right.$	$-\frac{\$20,000}{\$5}$	= 144,000
Fair value of stock i	ssued (144,0	000 × \$15)	= \$2,160,000

Exercise 2-9

\$130,000
120,000
\$ 10,000
\$110,000
90,000
\$ 20,000
\$15,000
20,000
(\$ 5,000)

	Assets		Liabilities	Retained	
	Goodwill	Current Assets	rent Assets Long-Lived Assets		Earnings (Gain)
Case A	\$10,000	\$20,000	\$130,000	\$30,000	0
Case B	20,000	30,000	80,000	20,000	0
Case C	0	20,000	40,000	40,000	5,000

<u>Exercise 2-10</u> Part A.	
2011: Step 1 : Fair value of the reporting unit Carrying value of unit:	\$400,000
Carrying value of identifiable net assets\$330,000Carrying value of goodwill (\$450,000 - \$375,000)75,000	
Excess of carrying value over fair value	<u>405,000</u> \$ 5,000
The excess of carrying value over fair value means that step 2 is required	
Step 2: Fair value of the reporting unit Fair value of identifiable net assets Implied value of goodwill Recorded value of goodwill (\$450,000 - \$375,000) Impairment loss	\$400,000 <u>340,000</u> 60,000 <u>75,000</u> \$ 15,000
2012: Step 1 : Fair value of the reporting unit <u>Carrying value of unit</u> :	\$400,000
Carrying value of identifiable net assets\$320,000Carrying value of goodwill (\$75,000 - \$15,000)60,000Excess of fair value over carrying value	<u>380,000</u> <u>\$ 20,000</u>
The excess of fair value over carrying value means that step 2 is not requ	ired.
2013: Step 1 : Fair value of the reporting unit <u>Carrying value of unit</u> :	\$350,000
Carrying value of identifiable net assets\$300,000Carrying value of goodwill (\$75,000 - \$15,000)60,000	360,000
Excess of carrying value over fair value	<u>\$ 10,000</u>
The excess of carrying value over fair value means that step 2 is required	
Step 2: Fair value of the reporting unit Fair value of identifiable net assets Implied value of goodwill Recorded value of goodwill (\$75,000 - \$15,000) Impairment loss	\$350,000 <u>325,000</u> 25,000 <u>60,000</u> <u>\$35,000</u>

<u>Part B.</u> 2011:	Impairment Loss—Goodwill Goodwill	15,000	15,000
2012:	No entry		
2013: Part C.	Impairment Loss—Goodwill Goodwill	35,000	35,000

SFAS No. 142 specifies the presentation of goodwill in the balance sheet and income statement (if impairment occurs) as follows:

- The aggregate amount of goodwill should be a separate line item in the balance sheet.
- The aggregate amount of losses from goodwill impairment should be shown as a separate line item in the operating section of the income statement unless some of the impairment is associated with a discontinued operation (in which case it is shown net-of-tax in the discontinued operation section).

<u>Part D.</u>

In a period in which an impairment loss occurs, *SFAS No. 142* mandates the following disclosures in the notes:

(1) A description of the facts and circumstances leading to the impairment;

(2) The amount of the impairment loss and the method of determining the fair value of the reporting unit;

(3) The nature and amounts of any adjustments made to impairment estimates from earlier periods, if significant.

Exercise 2-11

a. Fair Value of Identifiable Net Assets	
Book values \$500,000 - \$100,000 =	\$400,000
Write up of Inventory and Equipment:	
(\$20,000 + \$30,000) =	50,000
Purchase price above which goodwill would result	\$450,000

b. Equipment would not be written down, regardless of the purchase price, unless it was reviewed and determined to be overvalued originally.

- c. A gain would be shown if the purchase price was below \$450,000.
- d. Anything below \$450,000 is technically considered a bargain.
- e. Goodwill would be \$50,000 at a purchase price of \$500,000 or (\$450,000 + \$50,000).

Exercise 2-12A

Cash	20,000	
Accounts Receivable	112,000	
Inventory	134,000	
Land	55,000	
Plant Assets	463,000	
Discount on Bonds Payable	20,000	
Goodwill*	127,200	
Allowance for Uncollectible Accounts		10,000
Accounts Payable		54,000
Bonds Payable		200,000
Deferred Income Tax Liability		67,200
Cash		600,000
Cost of acquisition		\$600,000
Book value of net assets acquired (\$80,000 + \$132,000 + \$160,000)		372,000
Difference between cost and book value		228,000
Allocated to:		,
Increase inventory, land, and plant assets to fair value ($$52,000 + $$	25,000 + \$71,000)	(148,000)
Decrease bonds payable to fair value	,	(20,000)
Establish deferred income tax liability ($$168,000 \times 40\%$)		67,200
Balance assigned to goodwill		\$127,200

ANSWERS TO PROBLEMS

Problem 2-1

Current Assets	85,000	
Plant and Equipment	150,000	
Goodwill*	100,000	
Liabilities		35,000
Common Stock [(20,000 shares @ \$10/share)]		200,000
Other Contributed Capital $[(20,000 \times (\$15 - \$10))]$		100,000
Acquisition Costs Expense Cash	20,000	20,000
Other Contributed Capital Cash To record the direct acquisition costs and stock issue costs	6,000	6,000

* Goodwill = Excess of Consideration of \$335,000 (stock valued at \$300,000 plus debt assumed of \$35,000) over Fair Value of Identifiable Assets of \$235,000 (total assets of \$225,000 plus PPE fair value adjustment of \$10,000)

Problem 2-2	Acme Company		
	Balance Sheet		
	October 1, 2011		
	(000)		
Part A.			
Assets (except goodwill) (\$3,900	+ \$9,000 + \$1,300)		\$14,200
Goodwill (1)			1,160
Total Assets			<u>\$15,360</u>
Liabilities (\$2,030 + \$2,200 + \$2	.60)		\$4,490
Common Stock $(180 \times \$20) + \2	,		5,600
Other Contributed Capital (180 ×	< (\$50 - \$20))		5,400
Retained Earnings			(130)
Total Liabilities and Equity			<u>\$15,360</u>
(1) Cost $(180 \times \$50)$			\$9,000
Fair value of net assets acquired:			<i>4 - ,</i>
Fair value of assets of Baltic	and Colt	\$10,300	
Less liabilities assumed		2,460	7,840
Goodwill		<u> </u>	\$1,160

Problem 2-2 (continued)

<u>Part B.</u>

Baltic Step1: Fair value of the reporting unit 2012: Step1: Fair value of the reporting unit Carrying value of unit: Carrying value of identifiable net assets Carrying value of identifiable net assets Carrying value of goodwill Total carrying value *[(140,000 x \$50) - (\$9,000,000 - \$2,200,000)] The excess of carrying value over fair value means	6,340,000 <u>200,000*</u> that step 2 is re	\$6,500,000 6,540,000 quired.
Step 2: Fair value of the reporting unit Fair value of identifiable net assets Implied value of goodwill Recorded value of goodwill Impairment loss		\$6,500,000 <u>6,350,000</u> 150,000 <u>200,000</u> \$ 50,000
(because \$150,000 < \$200,000)		
Colt 2012:Step1: Fair value of the reporting unit Carrying value of unit: Carrying value of identifiable net assets Carrying value of goodwill Total carrying value*[(40,000 x \$50) - (\$1,300,000 - \$260,000)] The excess of carrying value over fair value means	\$1,200,000 <u>960,000*</u> that step 2 is re	\$1,900,000 2,160,000 quired.
Step 2: Fair value of the reporting unit Fair value of identifiable net assets Implied value of goodwill Recorded value of goodwill Impairment loss		\$1,900,000 <u>1,000,000</u> 900,000 <u>960,000</u> \$ 60,000
(because \$900,000 < \$960,000)		
Total impairment loss is \$110,000.		
Journal entry: Impairment Loss Goodwill	\$110,0	000 \$110,000

Problem 2-3		
Present value of maturity value, 20 periods @ 6%:	0.3118 × \$600,000 =	\$187,080
Present value of interest annuity, 20 periods @ 6%:	11.46992 × \$30,000 =	344,098
Total Present value		531,178
Par value		600,000
Discount on bonds payable		\$68,822
Cash	114,000	
Accounts Receivable	135,000	
Inventory	310,000	
Land	315,000	
Buildings	54,900	
Equipment	39,450	
Bond Discount (\$40,000 + \$68,822)	108,822	
Current Liabilities		95,300
Bonds Payable (\$300,000 + \$600,000)		900,000
Gain on Purchase of Business		81,872
Computation of Excess of Net Assets Received Over	r Cost	
Cost (Purchase Price) (\$531,178 plus liabilities assur	med of \$95,300 and \$260,000)	\$886,478
Less: Total fair value of assets received		<u>\$968,350</u>
Excess of fair value of net assets over cost		<u>(\$ 81,872</u>)
Problem 2-4		
Part A January 1, 2011		
Accounts Receivable	72,000	
Inventory	99,000	
Land	162,000	
Buildings	450,000	
Equipment	288,000	
Goodwill*	54,000	

Allowance for Uncollectible Accounts	7,000
Accounts Payable	83,000
Note Payable	180,000
Cash	720,000
Liability for Contingent Consideration	135,000
*Computation of Goodwill	
Cash paid (\$720,000 + \$135,000)	\$855,000
Total fair value of net assets acquired (\$1,064,000 - \$263,000)	801,000
Goodwill	\$ 54,000

Problem 2-4 (continued)

Part B	January 2, 2013		
	Liability for Contingent Consideration Cash	135,000	135,000
Part C	January 2, 2013		
	Liability for Contingent Consideration Income from Change in Estimate	135,000	135,000

Problem 2-5

Pepper Company Pro Forma Balance Sheet Giving Effect to Proposed Issue of Common Stock and Note Payable for All of the Common Stock of Salt Company under Purchase Accounting December 31, 2010

	Audited	A 11 / /	Pro Forma
	Balance Sheet	<u>Adjustments</u>	Balance Sheet
Cash	\$180,000	405,000	\$585,000
Receivables	230,000	(60,000)	287,000
		117,000 5	
Inventories	231,400	134,000	365,400
Plant Assets	1,236,500	905,000 (1)	2,141,500
Goodwill		181,500	181,500
Total Assets	\$1,877,900		<u>\$3,560,400</u>
Accounts Payable	\$255,900	$(60,000)$ $\left. \right\}$ $(60,000)$	\$375,900
Notes Payable, 8%	0	300,000	300,000
Mortgage Payable	180,000	152,500	332,500
Common Stock, \$20 par	900,000	600,000	1,500,000
Additional Paid-in Capital	270,000	510,000 (2)	780,000
Retained Earnings	272,000		272,000
Total Liabilities and Equity	<u>\$1,877,900</u>		<u>\$3,560,400</u>

Problem 2-5 (continued)

<u>Change in Cash</u> Cash from stock issue (\$37 × 30,000) Less: Cash paid for acquisition Plus: Cash acquired in acquisition Total change in cash	\$1,110,000 (800,000) <u>95,000</u> <u>\$405,000</u>
Goodwill: Cost of acquisition Net assets acquired (\$340,000 + \$179,500 + \$184,000) Excess cost over net assets acquired Assigned to plant assets Goodwill	\$1,100,000 703,500 \$396,500 215,000 \$ 181,500

(1) \$690,000 + \$215,000 (2) (\$37 - \$20) × 30,000

Problem 2-6	Ping Company
	Pro Forma Income Statement for the Year 2011
	Assuming a Merger of Ping Company and Spalding Company

Sales (1) Cost of goods sold:		\$6,345,972
Fixed Costs (2)	\$824,706	
Variable Costs (3)	<u>2,464,095</u>	3,288,801
Gross Margin		3,057,171
Selling Expenses (4)	\$785,910	
Other Expenses (5)	319,310	1,105,220
Net Income		<u>\$1,951,951</u>
$\frac{\$1,951,951 - (\$952,640 + \$499,900)}{0.20} =$	$\frac{\$499,411}{0.20}$	= \$2,497,055
Since \$2,497,055 is greater than \$1,800,000 l		balding.
(1) \$3,510,100 + \$2,365,800 = \$5,875,900 ×	1.2 × .9 =	\$6,345,972
(2) (\$1,752,360 × .30) + (\$1,423,800 × .30 ×	.70) =	\$824,706
(3) $1,752,360 \times .70 \times \frac{$5,875,900 \times 1.2}{$3,510,100}$	=	\$2,464,095
(4) (\$632,500 + \$292,100) × .85 =		\$785,910
(5) \$172,600 × 1.85 =		\$319,310

Problem 2-7A

Part A	Receivables Inventory Land Plant Assets Patents Deferred Tax Asset (\$60,000 x 35 Goodwill* Current Liabilities Bonds Payable Premium on Bonds Payable Deferred Tax Liability Common Stock (30,000 × \$ Other Contributed Capital (2)	$\begin{array}{c} 125,000\\ 195,000\\ 120,000\\ 567,000\\ 200,000\\ 21,000\\ 154,775\\ & 89,500\\ 300,000\\ & 60,000\\ & 93,275\\ & 60,000\\ & 780,000 \end{array}$
	Cost of acquisition $(30,000 \times \$28)$ Book value of net assets acquired $(\$120,000 + \$164,000 + \$267,000)$ Difference between cost and book value Allocated to: Increase inventory, land, plant assets, and patents to fair value Deferred income tax liability $(35\% \times \$266,500)$ Increase bonds payable to fair value Deferred income tax asset $(35\% \times \$60,000)$ Balance assigned to goodwill		\$840,000 <u>551,000</u> 289,000 (266,500) 93,275 60,000 <u>(21,000)</u> <u>\$154,775</u>
Part B	Income Tax Expense (Balancing a Deferred Tax Liability (\$51,125 × Deferred Tax Asset (\$6,000 Income Tax Payable (\$468, Inventory: Plant Assets, $\frac{$100,000}{10}$	< 35%)*) × 35%)	148,006 17,894 2,100 163,800

Patents,	<u>\$105,000</u> 8	<u>13,125</u>
Total	-	<u>\$51,125</u>

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