CHAPTER 1

UNDERSTANDING THE ISSUES

- **1.** (a) horizontal combination—both are marine engine manufacturers
 - (b) vertical combination—manufacturer buys distribution outlets
 - (c) conglomerate—unrelated businesses
- 2. By accepting cash in exchange for the net assets of the company, the seller would have to recognize an immediate taxable gain. However, if the seller were to accept common stock of another corporation instead, the seller could construct the transaction as a tax-free reorganization. The seller could then account for the transaction as a tax-free exchange. The seller would not pay taxes until the shares received were sold.
- **4.** (a) The net assets and goodwill will be recorded at their full fair value on the books of the parent on the date of acquisition.
 - (b) The net assets will be "marked up" to fair value and goodwill will be recorded at the end of the fiscal year when the consolidated financial statements are prepared through the use of a consolidated worksheet.
- **5.** Puncho will record the net assets at their fair value of \$800,000 on its books. Also, Puncho will record goodwill of \$100,000 (\$900,000 \$800,000) resulting from the excess of the price paid over the fair value. Semos will record the removal of its net assets at their book values. Semos will record a gain on the sale of business of \$500,000 (\$900,000 \$400,000).

6.	Zone	Group	Cumulative
	Analysis	Total	Total
	Priority	\$ 20,000	\$ 20,000
	Nonpriority	500,000	520,000

(a) This price exceeds the fair value of all accounts and allows for goodwill.

Current assets (fair value)	\$120,000
Land (fair value)	80,000
Liabilities (fair value)	(100,000)
Building & equipment (fair value)	400,000
Customer list (fair value)	20,000
Goodwill	280,000
Extraordinary gain	
	<u>\$800,000</u>

(b) This price is a bargain. The nonpriority accounts are discounted. There is \$430,000 (\$450,000 - \$20,000 to priority accounts) available to be allocated to these accounts.

Current assets (fair value)Liabilities (fair value)	\$120,000 (100,000)
Land [(80 ÷ 500) × \$430,000]	68,800
Building & equipment	
[(400 ÷ 500) × \$430,000]	344,000
Customer list [(20 ÷ 500) × \$430,000] 17,200
Goodwill	_
Extraordinary gain	
Total	\$450,000

(c) This price creates an extraordinary gain. Only priority accounts are recorded.

Current assets (fair value)	
Liabilities (fair value)	(100,000)
Building & equipment	
(no amount available)	_
Customer list	
(no amount available)	
Goodwill	
Extraordinary gain	(5,000)
Total	\$ 15,000

7. (a) Direct cost—Included with the price paid to assign values to net assets, and possibly to goodwill.

- (b) Direct cost—Included with the price paid to assign values to net assets, and possibly to goodwill.
- (c) Direct cost—Included with the price paid to assign values to net assets, and possibly to goodwill.
- (d) Issue cost—Deducted from the amount assigned to stock issued in the combination.
- (e) Indirect cost—Expensed in the current period
- **8.** (a) Additional goodwill is recorded because the target was met. The entry would take the following form:

Goodwill (fair value of stock issued)

Common Stock (par value of stock issued)

Paid-In Capital in Excess of Par (fair value of stock issued minus par value)

(b) In this case, the paid-in capital in excess of par account is reduced for the par value of the additional shares to be issued. The fair value of the stock originally issued is being devalued.

The entry would take the following form:

Paid-In Capital in Excess of Par (par value of additional shares issued)

Common Stock (par value of additional shares issued)

EXERCISES

EXERCISE 1-1

Current-year income using the purchase method:

Combined Net Income	
Year Ended December 31, 20xx	
Sales [\$800,000 + (1/2 × \$500,000)] Less:	\$1,050,000
Cost of goods sold [\$400,000 + (1/2 × \$300,000)]	187,500
Other expenses [\$50,000 + (1/2 × \$25,000)]	62,500
*Purchase price	
Current-year income using the pooling method:	
Combined Net Income Year Ended December 31, 1998	
Sales (\$800,000 + \$500,000) Less:	\$1,300,000
Cost of goods sold (\$400,000 + \$300,000)	700,000
Operating expenses (\$150,000 + \$75,000)	
Other expenses (\$50,000 + \$25,000)	
Net income	. \$ 300,000
EXERCISE 1-2	
(1) Current Assets	100,000 75,000

(1)	Current Assets	100,000	
. ,	Land	75,000	
	Building	300,000	
	Equipment	275,000	
	Goodwill	167,000	
	Liabilities	,	102.000
	Cash (includes direct acquisition costs)		815,000

Exercise 1-2, Concluded

(2) CashLiabilitiesAccumulated Depreciation—Building	800,000 100,000 200,000	
Accumulated Depreciation—BuildingAccumulated Depreciation—Equipment	100,000	
Current Assets Land Building Equipment	100,000	80,000 50,000 450,000 300,000
Gain on Sale of Business		320,000
Note: Seller does not receive direct acquisition costs.		
(3) Investment in Cardinal Company	815,000	815,000
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Note: At year-end, Cardinal would be consolidated with Benz, as explained in Chapter 2.

EXERCISE 1-3

Cash**	100,000	
Inventory	250,000	
Equipment	220,000	
Land	180,000	
Buildings	300,000	
Discount on Bonds Payable	140,000	
	665,000	
Goodwill*Current Liabilities	003,000	80,000
		•
Bonds Payable		550,000
Common Stock		300,000
Paid-In Capital in Excess of Par		900,000
Cash**		25,000
*Total consideration:		
Common stock (60,000 shares × \$20)	\$1,200,000	
Direct acquisition costs	25,000	
Price paid		\$1,225,000
		, , ,
Less fair value of assets acquired:	ф 400 000	
Cash	\$ 100,000	
Inventory	250,000	
Current liabilities	(80,000)	
Bonds payable	(410,000)	
Equipment	220,000	
Land	180,000	
Buildings	300,000	
Value of assets acquired		560,000
Excess of total cost over fair value of assets		<u>\$ 665,000</u>

^{**}Cash accounts in this entry may be shown as a net amount.

Exercise 1-3, Concluded

In a purchase, assets acquired and liabilities assumed are recorded at fair value. Direct acquisition costs are added to the total purchase price of the acquisition. As an end result, the direct acquisition costs are assigned to Goodwill or to the value of the separable assets in a bargain purchase.

General Expense	30,000	
Cash		30,000
Indirect acquisition costs are expensed.		
Paid-In Capital in Excess of Par	10,000	
Cash		10,000

In a purchase, the costs to register and issue stock are treated as a reduction of the amount received for the stock.

EXERCISE 1-4

Pro Forma Income Statement Year Ended December 31, 20X2

Year Ended December 31, 20X2		
Sales	\$700,000	
Less:		
Cost of goods sold (\$340,000 + \$25,000)	365,000	
Operating expenses (\$185,000 + \$5,250*)	190,250	
Other expenses	<u>50,000</u>	
Net income	<u>\$ 94,750</u>	
*Operating expenses had the following adjustments:		
Depreciation expense:		
Equipment (\$30,000 ÷ 20 years)	\$ 1,500	
Buildings (\$75,000 ÷ 20 years)	3,750	
Total adjustments	<u>\$ 5,250</u>	
EXERCISE 1-5		
Purchase Price:		
Cash	\$180,000	
Direct acquisition costs incurred	10,000	
Total purchase price	\$190,000	

Exercise 1-5, Concluded

Zone Analysis	Group Total		Cumulative Group Total
Priority accounts	\$140,000 55,000		\$140,000 195,000
Price paid	\$190,000 140,000 50,000 — —		
Journal Entry:			
Accounts Receivable* Inventory* Equipment [(40 ÷ 55) × \$50,000] Brand-Name Copyright [(15 ÷ 55) × \$50,000] Cash Current Liabilities* Mortgage Payable*		200,000 270,000 36,364 13,636	190,000 80,000 250,000
*Fair value			
Dr = Cr check amounts		520,000	520,000
Acquisition Expense**		15,000	15,000
**Indirect acquisition costs			
EXERCISE 1-6			
Purchase Price:			
Cash Direct acquisition costs incurred Total purchase price			\$125,000 10,000 \$135,000
Zone Analysis	Group Total		Cumulative Group Total
Priority accounts Nonpriority accounts	\$140,000 55,000		\$140,000 195,000
Price paidAssign to priorityAssign to nonpriority	\$135,000 140,000 — —		
Extraordinary gain	5,000		

Exercise 1-6, Concluded

Journal Entry:

Accounts Receivable*Inventory*	200,000 270,000	
Cash	0,000	135,000
Current Liabilities*		80,000
Mortgage Payable*		250,000
Extraordinary Gain		5,000
*Fair value		
Dr = Cr check amounts	470,000	470,000
<i>Note:</i> There is no amount available to allocate to the nonpriority asset copyrights).	s (equipment a	nd brand-name
Acquisition Expense**	15,000	15,000
**Indirect acquisition costs		

EXERCISE 1-7

Purc	hase	Pri	ce:
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Cash	\$400,000
Direct acquisition costs incurred	18,000
Total purchase price	<u>\$418,000</u>

Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$ 28,000*	\$ 28,000
Nonpriority accounts	500,000	528,000
Price paid	\$418,000	
Assign to priority	28,000	
Assign to nonpriority	390,000	
Goodwill	_	
Extraordinary gain	_	

^{*\$120,000} current assets - \$92,000 liabilities

Assignment and Allocation Schedule

Nonpriority Accounts	Fair Value	Percentage	Amount to Allocate	Allocated or Assigned Amount
Land	\$ 80,000	16%	\$390,000	\$ 62,400
Buildings (net)	250,000	50%	390,000	195,000
Equipment (net)	150,000	30%	390,000	117,000
Patents	20,000	4%	390,000	15,600
Total nonpriority accounts	\$500,000	100%		\$390,000

Exercise 1-7, Concluded

Journal Entry: Currents Assets*		120,000 62,400 195,000 117,000 15,600	418,000 92,000
Dr = Cr check amounts Acquisition Expense** Cash **Indirect acquisition costs		510,000 5,000	510,000 5,000
EXERCISE 1-8			
Purchase Price: Cash Direct acquisition costs incurred Total purchase price.			\$ 5,000 _18,000 \$23,000
Zone Analysis Priority accounts Nonpriority accounts Price paid Assign to priority	Group Total \$ 28,000 500,000 \$ 23,000 28,000		Cumulative Group Total \$ 28,000 528,000
Priority accounts Nonpriority accounts	Total \$ 28,000 500,000 \$ 23,000		Group Total \$ 28,000
Priority accounts Nonpriority accounts Price paid Assign to priority Assign to nonpriority Goodwill	Total \$ 28,000 500,000 \$ 23,000 28,000 — 5,000	120,000	Group Total \$ 28,000
Priority accounts. Nonpriority accounts. Price paid. Assign to priority. Assign to nonpriority. Goodwill. Extraordinary gain. Journal Entry: Currents Assets* Cash. Liabilities*	Total \$ 28,000 500,000 \$ 23,000 28,000 — 5,000	120,000	\$ 28,000 528,000 23,000 92,000
Priority accounts. Nonpriority accounts. Price paid. Assign to priority. Assign to nonpriority. Goodwill. Extraordinary gain. Journal Entry: Currents Assets* Cash. Liabilities* Extraordinary Gain.	Total \$ 28,000 500,000 \$ 23,000 28,000 — 5,000	120,000	\$ 28,000 528,000 23,000 92,000
Priority accounts. Nonpriority accounts. Price paid. Assign to priority. Assign to nonpriority. Goodwill. Extraordinary gain. Journal Entry: Currents Assets* Cash. Liabilities* Extraordinary Gain. *Fair value	Total \$ 28,000 500,000 \$ 23,000 28,000 — — — — 5,000	120,000	\$ 28,000 528,000 23,000 92,000 5,000 120,000

^{**}Indirect acquisition costs

EXERCISE 1-9

Fair God	chase price	\$600,000 _400,000 \$200,000
(2) (a)	Estimated fair value of business units	\$520,000 \$500,000
(b)	Estimated fair value of business units	\$400,000 \$450,000
	Estimated fair value of business units	\$400,000 <u>340,000</u> \$ 60,000 <u>200,000</u> <u>\$140,000</u>

EXERCISE 1-10

Machine = \$200,000

Because goodwill (excess of total cost over the fair value of the net assets acquired) resulted from the purchase, the purchase asset may be recorded at its appraised value.

Deferred tax liability = \$16,800

In this tax-free exchange, depreciation on \$56,000 (\$200,000 appraised value) – (\$144,000 net book value) of the machine's value is not deductible on future tax returns. The additional tax to be paid as a result of Lewison's inability to deduct the excess value assigned to the machine is \$16,800 ($$56,000 \times 30\%$).

Goodwill = \$116,800 (net of deferred tax liability)

\$800,000 - (\$700,000 - \$16,800)

Recorded as:

Goodwill (\$116,800 ÷ 70%)	\$166,857
Deferred tax liability (30% × \$166,857)	(50,057)
Net of tax goodwill	<u>\$116,800</u>

APPENDIX

EXERCISE 1A-1

(1) Calculation of Earnings in Excess of Normal:

Average operating income:

20X1	\$ 90,000
20X2	110,000
20X3	120,000
20X4 (subtract \$40,000)	100,000
20X5	<u> 130,000</u>
	\$550,000 ÷ 5 years =

\$110,000

Less normal return on assets:

Accounts receivable	\$100,000
Inventory	125,000
Land	100,000
Buildings	300,000
Equipment	250,000
Fair value of total assets	\$875,000
Industry normal rate of return	× 12%
Normal return on assets	

- (a) $5 \times \$5,000 = \$25,000$ Goodwill
- (b) Capitalize the perpetual yearly earnings at 12%:

Goodwill =
$$\frac{\text{Yearly excess earnings}}{\text{Capitalization rate}}$$

= $\frac{\$5,000}{0.12}$
= $\$41,667$

(c) Present value of a \$5,000 annuity capitalized at 16%. The correct present value factor is found in the "present value of an annuity of \$1" table, at 16% for 5 periods. This factor multiplied by the \$5,000 yearly excess earnings will result in the present value:

$$3.2743 \times \$5,000 = \$16,372$$

(2) The goodwill recorded would be \$25,000. The journal entry would be:

Accounts Receivable	100,000	
Inventory	125,000	
Land	100,000	
Buildings	300,000	
Equipment	250,000	
Goodwill	25,000	
Cook		

PROBLEMS

(a)	Purchase price	\$500,000
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Zone Analysis	Group Total	Cumulative Total
Priority accounts Nonpriority accounts	\$ 9,000 348,000	\$ 9,000 357,000
Price Analysis		
Price paid	\$500,000	
Assign to priority accounts	9,000	
Assign to nonpriority accounts	348,000	
Goodwill	143,000	
Extraordinary gain	0	
Journal Entry:		
Accounts Receivable	79,000	
Inventory	120,000	
Other Current Assets	55,000	
Equipment	307,000	
Trademark	27,000	
R&D Expense	14,000	
Goodwill		
Cash		500,000
Current Liabilities		145,000
Bonds Payable		100,000
Dr = Cr check amounts	745,000	745,000
Purchase price \$250,000		
	Group	Cumulative
Zone Analysis	Total	Total
Priority accounts	\$ 9,000	\$ 9,000
Nonpriority accounts	348,000	357,000

(c)

Problem 1-1, Continued

	Pr	rice Analysis		
Price paidAssign to priority account Assign to nonpriority acc Goodwill	tsounts		\$250,000 9,000 241,000 0	
Extraordinary gain			0	
Journal Entry:				
Accounts Receivable Inventory Other Current Assets Equipment Trademark R&D Expense Cash Current Liabilities Bonds Payable			120,000 55,000 212,606 18,698 9,696*	250,000 145,000 100,000
Or = Cr check amounts *R&D Expense was adju			495,000	495,000
	Alloca	<u>ition Tables</u>		
			To Allocate	Amount
Allocation: Equipment Trademark R&D Total	Asset \$307,000 27,000 14,000	Percent 88.2184% 7.7586% 4.0230% 100%	<u>To Allocate</u> \$241,000 241,000 241,000	Amount \$212,606 18,698 9,696* \$241,000
Allocation: Equipment TrademarkR&D	Asset \$307,000 27,000 14,000 \$348,000	Percent 88.2184% 7.7586% 4.0230% 100%	\$241,000 241,000	\$212,606 18,698 <u>9,696</u> *
Allocation: Equipment TrademarkR&D	Asset \$307,000 27,000 14,000 \$348,000	Percent 88.2184% 7.7586% 4.0230% 100%	\$241,000 241,000	\$212,606 18,698 9,696* \$241,000
Allocation: Equipment	Asset . \$307,000 . 27,000 . 14,000 . \$348,000 sted for rounding dif	Percent 88.2184% 7.7586% 4.0230% 100% ference.	\$241,000 241,000 241,000 Group Total	\$212,606 18,698 9,696* \$241,000 Cumulative Total
Allocation: Equipment	Asset . \$307,000 . 27,000 . 14,000 . \$348,000 sted for rounding dif	Percent 88.2184% 7.7586% 4.0230% 100% ference.	\$241,000 241,000 241,000 Group	\$212,606 18,698 <u>9,696*</u> <u>\$241,000</u> Cumulative
Allocation: Equipment	Asset . \$307,000 . 27,000 . 14,000 . \$348,000 sted for rounding dif	Percent 88.2184% 7.7586% 4.0230% 100% ference.	\$241,000 241,000 241,000 Group Total \$ 9,000	\$212,606 18,698 9,696* \$241,000 Cumulative Total \$ 9,000
Allocation: Equipment	Asset . \$307,000 . 27,000 . 14,000 . \$348,000 sted for rounding dif \$5,000 Pr	Percent 88.2184% 7.7586% 4.0230% 100% ference.	\$241,000 241,000 241,000 Group Total \$ 9,000	\$212,606 18,698 9,696* \$241,000 Cumulative Total \$ 9,000

Problem 1-1, Concluded

Journal Entry:

Accounts Receivable Inventory Other Current Assets Cash Current Liabilities Bonds Payable Extraordinary Gain.	·	5,000 145,000 100,000 4,000
Dr = Cr check amounts	254,000	254,000

<u> </u>	<u>Kent</u>
30,000	15,000
	\$10
\$40	\$40
\$1,200,000	\$600,000
5,000	4,000
<u>\$1,205,000</u>	<u>\$604,000</u>
	\$10 \$40 \$1,200,000 <u>5,000</u>

	Verk Company		Kent Company	
Zone Analysis	Group Total	Cumulative Group Total	Group Total	Cumulative Group Total
Priority accounts	\$ 150,000 750,000	\$150,000 900,000	\$ 30,000 480,000	\$ 30,000 510,000
Price paid	\$1,205,000 150,000 750,000 305,000		\$604,000 30,000 480,000 94,000	
Extraordinary gain	_		_	

Problem 1-2, Concluded

Barker entry to record the purchase of Verk: Accounts Receivable	200,000 200,000 300,000 450,000 10,000 305,000	160,000 100,000 300,000 900,000 5,000
Barker entry to record the purchase of Kent: Accounts Receivable	80,000 100,000 80,000 400,000 5,000 94,000	55,000 100,000 150,000 450,000 4,000
Acquisition ExpenseCash	13,000	13,000
Paid-In Capital in Excess of Par Cash To record issue and acquisition costs.	15,000	15,000

Purchase Price: Cash Direct acquisition costs incurred Total purchase price	\$730,000 <u>20,000</u> <u>\$750,000</u>		
Zone Analysis	Group Total		Cumulative Group Total
Priority accounts	\$ 95,000		\$ 95,000
Nonpriority accounts	400,000		495,000
Price paid	\$750,000 95,000 400,000 255,000		
(1) Purchase entry: Cash Equivalents		100,000 120,000 70,000 400,000 255,000	30,000 165,000 750,000
(2) Pro Forma Income:		<u>Con</u>	nbined Income
Sales Less:			\$ 200,000
Cost of goods sold (\$120,000 + \$20,000) Other expenses Depreciation (1/20 of \$400,000 market value) Net income.		 	(140,000) (25,000) (20,000) \$ 15,000

Purchase Price: Cash	Part 1 20,000 \$10 \$25 \$500,000 0 \$500,000	Part 2 \$385,000 \$385,000
Total purchase price	<u>\$300,000</u>	<u>ψ303,000</u>
Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$260,000 160,000	\$260,000 420,000
(1) Price paid	\$500,000 260,000 160,000 80,000	
(2) Price paid	\$385,000 260,000 125,000 0	
Kent Corporation journal entries:		
(1) Accounts Receivable Inventory Land Building Goodwill Accounts Payable Common Stock Paid-In Capital in Excess of Par		40,000 200,000 300,000

Problem 1-4, Concluded

(2) Accounts Receivable			40,000 385,000
*Allocation Land Building	\$ 40,000 _120,000 \$160,000	25% × \$125,000 = <u>75%</u> × \$125,000 = <u>100%</u>	\$ 31,250 <u>93,750</u> <u>\$125,000</u>
	PROBLEM 1	-5	
Purchase Price: Number of shares exchanged Par value of a share of stock Market value of a share of stock			16,000 \$10 \$265
Market value of stock exchanged Direct acquisition costs incurred Total purchase price			\$4,240,000 <u>12,000</u> <u>\$4,252,000</u>
Zone Analysis		Group Total	Cumulative Group Total
Priority accounts Nonpriority accounts			\$1,056,000 2,967,875
Price paidAssign to priorityAssign to nonpriorityGoodwillExtraordinary gain		1,056,000 1,911,875 1,284,125	
*Investments		912,500 1,200,000 18,000 (1,475,000) \$1,056,000	
**LandBuildings (1.25 × \$1,473,500) Total nonpriority accounts		<u>1,841,875</u>	

Problem 1-5, Concluded

Journal Entry:

InvestmentsAccounts Receivable	400,500 1,250,000	
Inventory	1,200,000	
Prepaid Insurance	18,000	
Land (fair value)	70,000	
Machinery and Equipment (125%)	1,841,875	
Goodwill*	1,284,125	
Allowance for Doubtful Accounts		337,500
Current Liabilities		1,475,000
Common Stock (16,000 × \$10)		160,000
Paid-In Capital in Excess of Par [(16,000 × \$265) – \$160,000] Cash (direct acquisition costs)		4,080,000 12,000
Casii (uiiect acquisitioii costs)		12,000

^{*}Excess of consideration over separate fair values.

Р	п	rc	ha	se	Ρı	ric	6.
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Cash	\$580,000
Direct acquisition costs incurred	20,000
Total purchase price	\$600,000

Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$(283,500)	\$(283,500)
Nonpriority accounts	791,000	507,500
Price paid	\$ 600,000	
Assign to priority	(283,500)	
Assign to nonpriority	791,000	
Goodwill	92,500	
Extraordinary gain	0	

Problem 1-6, Concluded

Journal Entry:

Notes Receivable	24,000	
Accounts Receivable	56,000	
Inventory	30,000	
Other Current Assets	15,000	
Investments	63,000	
Land	55,000	
Building	275,000	
Equipment	426,000	
Patents	20,000	
Trade Names	15,000	
Goodwill	92,500	
Accounts Payable	•	45,000
Payroll and Benefit-Related Liabilities		12,500
Debt Maturing in One Year		10,000
Long-Term Debt		248,000
Payroll and Benefit-Related Liabilities		156,000
Cash		600,000

Purchase	Price:
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Cash	\$290,000
Number of shares exchanged	10,000
Par value of a share of stock	\$2
Market value of a share of stock	\$20
Market value of stock exchange	\$200,000
Direct acquisition costs incurred	
Total purchase price	\$490,000

Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$(118,000) 605,000	\$(118,000) 487,000
Price paidAssign to priorityAssign to nonpriorityGoodwill	\$ 490,000 (118,000) 605,000 3,000 0	

Problem 1-7, Concluded

Journal Entry:

Notes Receivable	33,000	
Inventory	80,000	
Prepaid Expenses	15,000	
Investments	55,000	
Discount on Bonds Payable	30,000	
Land	90,000	
Buildings	170,000	
Equipment	250,000	
Vehicles	25,000	
Franchise	70,000	
Goodwill	3,000	
Accounts Payable		63,000
Taxes Payable		15,000
Interest Payable		3,000
Bonds Payable		250,000
Cash		290,000
Common Stock		20,000
Paid-In Capital in Excess of Par		180,000

PROBLEM 1-8

(1)

Purchase Price:	
Cash	\$23,000
Direct acquisition costs incurred	0
Total purchase price	\$23,000

Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$ 25,000 151,000	\$ 25,000 176,000
Price paidAssign to priorityAssign to nonpriorityGoodwill	\$ 23,000 25,000 0 0 2,000	

Problem 1-8, Concluded

Journal Entry:

Accounts Receivable Inventory Other Current Assets Accounts Payable Accrued Liabilities Notes Payable Extraordinary Gain Cash		87,000 30,000 8,000	56,000 14,000 30,000 2,000 23,000
(2)			
Purchase Price: Cash Direct acquisition costs incurred Total purchase price		. <u> </u>	5,000 <u>0</u> 5,000
Zone Analysis	Group Total		umulative oup Total
Priority accounts	\$ 25,000 151,000		5 25,000 176,000
Price paid	\$ 45,000 25,000 20,000 0		
Journal Entry:			
Accounts Receivable. Inventory Other Current Assets. Equipment [(\$80,000/\$151,000) × \$20,000]. Vehicles [(\$71,000/\$151,000) × \$20,000]. Accounts Payable. Accrued Liabilities. Notes Payable. Cash		87,000 30,000 8,000 10,596 9,404	56,000 14,000 30,000 45,000

PROBLEM 1-9

Name of Acquiring Company: Arthur Enterprises Name of Acquired Company: Ann's Tool Company Pro Forma Income Statement For the Year Ending December 31, 20X1

Tax rate expressed as 0.3 for 30%:

	Arthur	Ann's	Adjus	stments	Pro Forma C	ombined
Income Statement Accounts	Enterprises	Tool Co.	Debit	Credit	Income Sta	tement
Sales revenue Cost of goods sold		(140,000) 		(1) 2,000		(690,000) 248,000
Gross profit	(350,000)	(90,000)				(442,000)
Selling expenses	125,000	30,000			155,000	
Administrative expenses	150,000	45,000			195,000	
Depreciation expense—						
Arthur	13,800				13,800	
Depreciation expense—						
Ann's Tool		7,500		(2) 7,500	13,500	
Depreciation—buildings			(3) 5,000			
Depreciation—equipment			(4) 7,000			
Depreciation—truck			(5) 1,500			
Amortization expense—						
Arthur	5,600				5,600	
Amortization expense—						
Ann's Tool		2,000		(6) 2,000	10,000	
Amortization of patent			(7) 3,000			
Amortization of computer						
software			(8) 5,000			
Amortization of copyright	<u></u>	<u></u>	(9) 2,000			
Total operating expenses	294,400	84,500				392,900
Net operating income	(55,600)	(5,500)				(49,100)
Nonoperating revenues and						
expenses						
Interest expense		4,000			4,000	
Interest income	(7,000)				(7,000)	
Dividend income	(4,000)				(4,000)	
Total nonoperating revenues						
and expenses	<u></u>	<u></u>	<u></u>			(7,000)
Income before taxes	(66,600)	(1,500)	23,500	11,500		(56,100)
Provision for income taxes	19,980	450				16,830
Net income	<u>(46,620</u>)	<u>(1,050</u>)				(39,270)

- Reduce inventory to fair value.
 Remove Ann's depreciation based on book values.
 Depreciation of Ann's assets based on fair value.
 Remove Ann's amortization based on book value.
 Patent amortization based on fair value.

- Amortization of computer software.

 Amortization of copyright. 8.

PROBLEM 1-10

(a)

Purchase Price: Number of shares exchanged Par value of a share of stock Market value of a share of stock		. \$5 . \$27
Market value of stock exchanged Direct acquisition costs incurred Total purchase price		10,000
Zone Analysis	Group Total	Cumulative Group Total
Priority accounts	\$ 36,000 213,000	\$ 36,000 249,000
Price paid	\$280,000 36,000 213,000 31,000 0	
Journal Entry:		
Accounts Receivable. Inventory		15,000 40,000 12,000 33,000 40,000 85,000 50,000 12,000 26,000 31,000 22,000 40,000 10,000 50,000 220,000

Problem 1-10, Concluded

(b) Name of Acquiring Company: Garden International Name of Acquired Company: Iris Company Pro Forma Income Statement For the Year Ending December 31, 20X1

Tax rate expressed as 0.4 for 40%:

	Garden	Iris	A	djustments	Pro Forma (Combined
Income Statement Accounts	International	l Company	Debit	Credit	Income St	atement
Sales revenue Cost of goods sold Gross profit Selling expenses	147,000 (203,000) 100,000	(125,000) <u>55,000</u> <u>(70,000)</u> 20,000	(3) 2,000		120,000	(475,000) <u>204,000</u> (271,000)
Administrative expenses	50,000	30,000			80,000	
Depreciation expense— Garden Depreciation expense—Iris Depreciation—buildings Depreciation—equipment Amortization expense—		8,600	(4) 4,000 (5) 5,000		12,500 9,000	
Garden	 163,500	<u></u>	(6) 1,200 (7) 2,600			
expenses Interest expense Investment income Total nonoperating revenues.	(12,000)	3,000 (4,500)			3,000 _(16,500)	
and expenses Income before taxes Provision for income taxes Net income	(51,500) 20,600		14,800			(13,500) (58,200) 23,280 (34,920)

- Remove depreciation based on book value.
 Remove amortization based on book value.
 Increase cost of goods sold to reflect fair value of beginning inventory.
 Depreciation based on fair value.

- Patent amortization.
 Copyright amortization.

Current Assets Equipment (\$100,000 increase) Land and Buildings Goodwill* Bonds Payable Deferred Tax Liability (\$30,000 + \$60,000) Common Stock (\$10 par) Paid-In Capital in Excess of Par Cash (direct acquisition costs)	150,000 300,000 250,000 200,000	200,000 90,000 100,000 500,000 10,000
*Price paid (10,000 shares × \$60 fair value + \$10,000 direct acquisition costs)		\$610,000
Current assets	\$ 150,000 300,000 (30,000) 250,000 (200,000)	470,000 \$140,000
Recorded as: Goodwill (\$140,000 ÷ 70%) Deferred tax liability (30% × \$200,000) Net of tax goodwill	\$ 200,000 (60,000) \$ 140,000	
Paid-In Capital in Excess of ParCash	3,000	3,000
PROBLEM 1A-1		
(1) Bonds		
Present value of interest payments for 5 years at 8%, \$27,000 × 3.9927 Present value of principal due in 5 years at 8%,	\$1	07,803
\$300,000 × 0.6806 Present value of bonds		04,180 11,983
Goodwill		
Expected return (\$120,000 + \$140,000 + \$150,000 + \$160,000 + \$180,000) ÷ 5 Normal return on assets (\$150,000 + \$200,000 + \$700,000) × 10% Profit in excess of normal return	5 <u>1</u>	50,000 05,000 45,000
Present value of excess of normal return for 5 years at 16%, \$45,000 × 3.2743	<u>\$1</u>	<u>47,344</u>

Ch. 1—Problems

(2)	Cash and Receivables	150,000	
	Inventory	200,000	
	Land	100,000	
	Building	600,000	
	Goodwill	147,344	
	Current Liabilities		120,000
	9% Bonds Payable		300,000
	Premium on Bonds Payable		11,983
	Cash		765,361

CASES

CASE 1-1

(a)	Price paid (\$55 × 264,662,707 shares)		4,556,448,885 3,945,000,000 0,611,448,885
(b)	40-year amortization period for goodwill: Net income	\$ <u>\$</u>	357,000,000 164,470,500 192,529,500
	There is no amortization of goodwill: Net income	¢	357 000 000
	Net income.	Ψ	357,000,000

CASE 1-2

(1) Confirmation:

Building pmtn	80,000 20 0.14
n	0.14
	• • • •
rate	
PV	529,850
Land (200,000
Balance, building	329,850
Patent	
pmt	40,000
n	4
rate	0.2
PV	103,550
Mortgage payable	
pmt	50,000
n	5
rate	0.07
PV	205,010

Case 1-2, Continued

(2) Discounted cash flows:

<u>Period</u>	Operating Capital	<u>Salvage</u>	_Total_
1	150,000		150,000
2	165,000		165,000
3	181,500		181,500
4	199,650		199,650
5	219,615	(100,000)	119,615
6	219,615		219,615
7	219,615		219,615
8	219,615		219,615
9	219,615		219,615
10	219,615	(120,000)	99,615
11	219,615		219,615
12	219,615		219,615
13	219,615		219,615
14	219,615		219,615
15	219,615	(130,000)	89,615
16	219,615		219,615
17	219,615		219,615
18	219,615		219,615
19	219,615		219,615
20	219,615	300,000	519,615
Rate		0.12	
NPV		1,406,859	

(3) Fair value comparison:

NPV of cash flows	\$1,406,859
Total paid price for net assets	_1,300,000
Excess of fair value	\$ 106,859

(4) Entry to record purchase:

Cash Equivalents	80,000	
Inventory	150,000	
Accounts Payable	180,000	
Land	200,000	
Building	329,850	
Equipment	220,000	
Patent	103,550	
Goodwill	361,610	
Current Liabilities		120,000
Mortgage Payable		205,010
Cash		1,300,000
Dr = Cr check amounts	1,625,010	1,625,010

181,610

Case 1-2, Concluded

(5) Impairment test:

Implied fair value of Frontier	\$1,200,000
Book value, including goodwill	1,300,000

Book value exceeds implied fair value, goodwill is impaired.

1					
1	mnr	nirmo	nt a	duic	tmant:
1	HHDa	1111111	ппа	uius	tment:

impairment adjustment:	
Implied fair value of Frontier	\$1,200,000
Fair value of net identifiable assets	
(without goodwill)	1,020,000
Implied remaining goodwill	180,000
Recorded goodwill	(361,610)
Required adjustment	(181,610)

Goodwill Impairment Loss	181,610
Goodwill	