Volume 66 | Issue 5 Article 12

11-1938

Students' Department

H P. Baumann

Follow this and additional works at: https://egrove.olemiss.edu/jofa



Part of the Accounting Commons

Recommended Citation

Baumann, HP. (1938) "Students' Department," Journal of Accountancy. Vol. 66: Iss. 5, Article 12. Available at: https://egrove.olemiss.edu/jofa/vol66/iss5/12

This Article is brought to you for free and open access by the Archival Digital Accounting Collection at eGrove. It has been accepted for inclusion in Journal of Accountancy by an authorized editor of eGrove. For more information, please contact egrove@olemiss.edu.

STUDENTS' DEPARTMENT

EDITED BY H. P. BAUMANN

[Note.—The answers to Institute examination questions which appear in this department are in no sense official. They have not been reviewed by the board of examiners and represent merely the opinions of the editor of the Students' Department.]

AMERICAN INSTITUTE OF ACCOUNTANTS EXAMINATIONS

Accounting Theory and Practice—Part II May 13, 1938, 1:30 P.M. to 6:30 P.M.

No. 3 (20 points):

The American Investment Trust, a Delaware corporation, was organized June 30, 1929, with an authorized capital of 10,000 shares of no-par-value stock, all of which was

sold at \$110 a share. The directors assigned a value of \$100 a share to the capital stock.

The annual reports to the stockholders for the calendar years 1932, 1933, and 1934 were prepared by the company's bookkeeper and included the following statements of surplus:

Surplus Account, 1932		
Earned surplus, January 1, 1932		\$250,000 200,000
Capital surplus, January 1, 1932, representing excess of amount realized over assigned value of capital stock	\$100,000 500,000	\$ 50,000
Deduct: Write-down of the cost of investments to market prices at December 31, 1932		\$650,000 579,000
Surplus, December 31, 1932		\$ 71,000
Surplus Account, 1933		
Balance, January 1, 1933		\$ 71,000
Excess of assigned value over cost of 1,000 shares of capital stock retired	,	10,000 40,000
Surplus, December 31, 1933		\$121,000
Surplus Account, 1934		
Earned surplus, January 1, 1934, representing net income for 1933	·	\$ 40,000
Six months ended June 30	\$ 40,000 35,000	75,000
		\$115,000

Deduct: Dividend paid December 31, 1934, \$6 a share	\$ 48,0	00
	67,0	00
Capital surplus, after deducting \$5,000 representing the net excess of cost over assigned value of 2,000 shares of capital stock retired	66,0	00
Surplus, December 31, 1934	\$133,0	00
The balance-sheet at December 31, 1934, as prepared by the bookkeeper, was a	s follov	vs:
Assets		
Cash in bank	\$ 38,0	00
Marketable securities (as per books)	493,5	
Prepaid expenses	7,5	50 00
	\$539,8	300
Liabilities		_
Management fee	\$ 2,6 4,2	
Capital	\$ 6,8	00
Capital stock, 8,000 shares \$400,000 Surplus 133,000	533,0	00
	\$539,8	300

As a result of your audit of the company's accounts you ascertain further: (a) that no investment securities had been purchased or sold since December 31, 1932; (b) that on December 31, 1932, the stockholders approved (1) the reduction of the assigned value of the company's capital stock to \$50 a share, (2) the write-down of the marketable investments to market quotations, and (3) the transfer of any deficit to capital surplus; (c) that the securities at December 31, 1934, market prices amounted to \$723,400; (d) that the treasury stock represents the 500

shares acquired at low cost June 30, 1934, namely, for \$7,500; (e) that 1,000 of the company's shares were acquired in 1934 and were retired September 30, 1934; and (f) that the authorized capital stock had been legally reduced by the 2,000 shares retired.

Prepare (1) a columnar statement of the annual surplus accounts in which capital and earned surplus are set forth in separate columns with a column for the total surplus; and (2) a balance-sheet at December 31, 1934, which you would be willing to certify.

Solution:

THE AMERICAN INVESTMENT TRUST

Balance-sheet December 31, 1934

Assets

Current assets:		
Cash in bank	\$ 38,000	
Marketable securities—at cost of \$1,072,550 less write-down of \$579,000 to market value at December 31, 1932 (Market value at December 31,		
1934—\$723,400)	493,550	\$531,550
Prepaid expenses		750
		\$ 532,300

Liabilities and Net Worth

Current liabilities:			
Management fee		\$ 2,600	
Taxes payable, including federal income taxes		4,200	\$ 6,800
Net worth:			
Capital stock of no par value—authorized and issued, 8,000	shares at		
an assigned value of \$50 per share		\$400,000	
Capital surplus, after the transfer of the deficit in earned-s	urplus ac-		
count at December 31, 1932, amounting to \$529,000		66,000	
Earned surplus (restricted in the amount of \$7,500, the cost of	500 shares		
of treasury stock):			
Net income for 1933 and 1934	\$ 115,000		
Less—dividend of \$6 per share paid during the year 1934	48,000	67,000	
Total		\$533,000	
Less—cost of 500 shares of treasury stock		7.500	525,500
			\$532,300

Statement of surplus—page 334.

No. 4 (20 points):

The Green Valley Cattle Company is a corporation operating a large ranch. It has been in business a number of years and has built up a large surplus, all of which has been kept in the business either in livestock or land investments.

At the beginning of the year 1937 there were on the books the following accounts: inventory of stock cattle, \$186,000; inventory of steers, \$69,000; inventory of calves and yearlings, \$43,500; land, \$250,000; buildings, \$60,500; farm machinery and equipment, \$18,000; farm work animals, \$15,000; saddle horses, \$7,000; cash in bank, \$16,800; accounts payable, \$6,200; notes payable, \$3,000; bonds payable, \$50,000 (interest payable semiannually, July 1st and January 1st); capital stock, \$50,000; and surplus.

During the year all liabilities were paid except the bonds, and additional expenditures were made for labor, \$14,000; feed, \$30,000; seed, \$4,000; insurance, \$2,500; taxes, \$11,500; freight, \$3,500; purchases of steers, \$32,000; of land, \$12,500; equipment for farm, \$2,500; and bond interest coupons, \$3,000. Receipts were for sales of steers, \$68,500; sales of yearlings and calves, \$32,000; sales of stock cattle, \$16,500; sales

of junk machinery, \$100; sale of mineral rights on five-year contract, \$25,000. The inventories at the end of the period were: stock cattle, \$165,000, yearlings and calves, \$45,000, and steers \$71,000.

All products from the farm were being used to feed the cattle. There were no unpaid bills at the end of the year, and the feed inventory need not be considered. There were losses by death during the year as follows: saddle horses, \$350; stock cattle, \$1,800; steers, \$1,650; and yearlings and calves, \$900.

No depreciation had ever been taken in the past and in the solution of this problem it may be disregarded. It will be unnecessary to consider federal or any other taxes.

Immediately following the end of the year 1937, and before any business had been done in 1938, except the declaration and payment of a cash dividend of \$30,000, the cattle and the title to the land and all other farm properties were sold for a flat sum of \$600,000 cash and the assumption by the buyer of the bonded liability and of the obligations under the mineral-rights contract.

Prepare a columnar work sheet showing the trial balances at the beginning and the end of the year, as well as the subsequent sale of the property.

•	THE AMERICAN INVESTMENT TRUST	January 1, 1932 to December 31, 1934
---	-------------------------------	--------------------------------------

THE GREEN VALLEY CATTLE COMPANY

WORK SHEET

Year Ended December 31, 1937

		Students' De	epariment	
Balance-sheet after Sale of Property and Payment of Dividend		\$ 50,000 \$52,700	1,500	\$604,200
Balar aftu of Pro Payment		\$604,200		\$604,200
Subsequent Sale of Property and Payment of Dividend	\$165,000 (5) 71,000 (5) 45,000 (5) 262,500 (5) 60,500 (5) 20,400 (5) 15,000 (5)	30,000 (6) 23,950 (5)	·	\$700,000
Subseque of Prop		\$600,000 (5) 50,000 (5) 30,000 (6)	20,000 (5)	\$700,000
Balance-sheet December 31, 1937		\$ 50,000 50,000 [555,100	,	\$683,900
Balan Decemb	\$165,000 71,000 45,000 262,500 60,500 20,400 15,000 6,650	34,200	3,650 (4)	\$683,900
Profit and Loss for the Year Ended December 31, 1937	\$165,000 71,000 45,000		68,500 32,000 16,500 5,000	\$403,000
Profit a for the Y Decembe	\$186,000 101,000 43,500 350		14,000 30,000 4,000 2,500 11,500 3,500 3,000 3,650	\$403,000
Transactions for the Year Ended December 31, 1937	-	} 9,200 (1)	3,000 (2) 68,500 (3) 32,000 (3) 16,500 (3) 25,000 (3)	\$269,800
Trans for the Yo	\$ 32,000 (2) 12,500 (2) 2,500 (2)	142,100 (3) 6,200 (1) 3,000 (1)	30,000 (2) 2,500 (2) 3,500 (3) 3,500 (3) 3,500 (3) 3,500 (3) 3,500 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3) 3,000 (3)	\$269,800
e-sheet 1, 1937	,	\$ 6,200 3,000 50,000 50,000 55,100	1,500	\$665,800
Balance-sheet January 1, 1937	\$186,000 69,000 43,500 250,000 60,500 18,000 15,000 7,000	16,800		\$665,800
	Inventory of stock cattle Inventory of steers	Cash in bank Accounts payable Notes payable Bonds payable Capital stock	Labor Peed Seed Insurance Taxes Freight Accrued interest on bond Bond interest coupons Sales of yearlings and calves Sales of yearlings and calves Sales of yearlings and calves Sales of interest rights Net profit.	Totals

(1) Payment of all liabilities, except bonds.
(2) Additional expenditures and accrual of bond interest.
(3) Receipts for sales.
(4) Transfer of profit for year.
(5) Sale of property.
(6) Payment of dividend.

No. 5 (20 points):

The following is a trial balance of the Allegheny Manufacturing Company as at December 31, 1937, before closing:

or, 1707, before aloung.	$D\tau$.	Cr.
Cash	\$ 50,000	•
Accounts receivable.	150.000	
Reserve for discounts		\$ 9,000
Inventory raw materials 1-1-37	100,000	
Inventory work in process 1-1-37	9.700	
Inventory finished product 1-1-37	22,000	
Machinery and fixtures	60,000	
Reserve for depreciation		15,000
Prepaid expenses	2,000	•
Accounts payable	•	30,000
Capital stock		200,000
Undivided profits		176,200
Sales		552,000
Discounts and allowances on sales	35,000	·
Purchases raw material	194,400	
Labor	113,950	
Manufacturing expenses	151,950	
Depreciation	3,000	
Selling expenses	48,000	
General expenses	42,200	
•		
	\$982,200	\$982,200

The company manufactures a specialty product from a variety of raw materials. Three different kinds—A. B. and C—are

produced, and based on previous experience, the cost is estimated to be:

	Α	В	С	Average
Material	\$10	\$ 8	\$ 6	\$ 8
Labor	6	6	6	6
Overhead	6	6	6	6
	\$22	\$ 20	\$ 18	\$20

The company used the average cost of \$20 in valuing the opening inventory and fixed the sales price for the year at \$30 per unit.

No record is available of the quantities put in process or produced of each product, but the \$552,000 sales were found to be made up as follows:

Grade A Grade B Grade C	3,900 units	
	18,400 units at \$30	\$552,000

The opening inventory of work in process was comprised of: 700 units (mixed grades) with material cost, \$5,600; labor cost, \$3,050; and overhead expenses, \$1,050—together \$9,700.

The opening inventory of finished goods consisted of 1100 units (mixed grades) at the average cost of \$20 each or \$22,000.

The inventory of work in process at the

end of the year is 1,000 units (600 of A, 300 of B, and 100 of C). Each is completed to the extent of one-half cost as to labor and overhead expense, but contains all of the material cost.

The inventory of the finished product at the end of the year is 1700 units (200 of A, 500 of B, and 1,000 of C).

The inventory of raw material at the end of

the year is \$80,000. From the foregoing data:

 Determine the cost of the finished goods and of the work in process at the end of the year and show fully how these costs were computed.

2. Prepare the annual accounts.

Also show the defects of cost system and budgeting methods.

Solution:

(1) Computation of the work of finished goods and work in process inventories at December 31, 1937.

ALLEGHENY MANUFACTURING COMPANY

	Material	Labor	Overhead	Total
Schedule of manufacturing costs: Work in process, January 1, 1937 Materials used in manufacture: Inventory, Jan. 1, 1937	\$ 5,600	\$ 3,050	\$ 1,050	\$ 9,700
Total\$294,400 Inventory, Dec. 31, 193780,000	214,400			214,400
Labor, overhead and depreciation		113,950	154,950	268,900
Totals	\$220,000	\$117,000	\$156,000	\$493,000
Equivalent units produced		19,500		
Average per unit		\$ 6.00		\$ 25.00
Computation of units produced:				
Units sold	18,400 1,700			
TotalInventory, January 1, 1937	20,100 1,100			
Units produced	19,000			

The inventory of work in process at December 31, 1937, contained 1,000 units 100% complete as to materials, and 50% complete as to labor and overhead. The equivalent units of the component parts of cost are, therefore:

parts of cost are, therefore:		
Uni	its Work in	
Produ	uced Process	Total
Material	000 1.000	20,000
Labor	000 500	19.500
Overhead	500	19,500
Cost of 1,000 units in process at December 31, 1937:		
Per Ce	ent Unit	
Compi		Amount
Material	\$11.00	\$11,000
Labor 50%	6.00	3,000
Overhead50%	8.00	4,000
Total		\$18,000
4.44		
Cost of 1,700 units of finished goods on hand December 31, 1937:		
50	Unit Cost	Amount
Material		\$18,700
Labor	6.00	10,200
Overhead	8.00	13,600
Total		\$42,500

(2) Annual Accounts ALLEGHENY MANUFACTURING COMPANY

BALANCE-SHEET

December 31, 1937

Assets

C			
Current assets Cash		\$ 50,000	
Accounts receivable.		\$ 20,000	
Less—Reserve for discounts		141,000	
Less—Reserve for discounts	9,000	141,000	
Inventories:			
Raw materials	\$ 80,000		
Work in process.			
Finished goods.		140 500	\$331,500
I mistica goods.	12,500	140,500	4001,000
Prepaid expenses			2,000
Machinery and fixtures.		\$ 60,000	2,000
Less—Reserve for depreciation		15,000	45,000
			\$378,500
•			
Liabilities and Net Worth			
Current liabilities			
Accounts payable			\$ 30,000
Net worth			•
Capital stock		\$200,000	
Surplus, January 1, 1937	\$176,200		
Less—Loss for the year ended December 31, 1937	27,700	148,500	348,500
•			
			\$ 378, 50 0
			*-·-,
ALLEGHENY MANUFACTURING CO	MPANY		
ALLEGHENY MANUFACTURING CON STATEMENT OF PROFIT AND LOSS	MPANY		=====
STATEMENT OF PROFIT AND LOSS			
Statement of Profit and Loss For the Year Ended December 31, 19	937		
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales	937	\$ 552,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances	937	35,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances. Net sales.	937	35,000	\$517,000
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances. Net sales Deduct—Cost of sales:	937	35,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials:	237	35,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937.	\$100,000	35,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials:	\$100,000	35,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases.	\$100,000	35,000	
STATEMENT OF PROFIT AND LOSS For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total.	\$100,000 194,400 \$294,400	35,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases.	\$100,000 194,400 \$294,400	35,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937.	\$100,000 194,400 \$294,400 80,000	35,000 	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor.	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses.	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950 151,950	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor.	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation.	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950 151,950 3,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total.	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950 151,950 3,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses Depreciation. Total. Inventory variation—Work in process:	\$100,000 194,400 \$294,400 80,000	\$214,400 113,950 151,950 3,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses Depreciation. Total. Inventory variation—Work in process: December 31, 1937.	\$100,000 194,400 \$294,400 \$0,000	\$214,400 113,950 151,950 3,000 \$483,300	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses Depreciation. Total. Inventory variation—Work in process:	\$100,000 194,400 \$294,400 \$0,000	\$214,400 113,950 151,950 3,000 \$483,300	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total. Inventory variation—Work in process: December 31, 1937. January 1, 1937.	\$100,000 194,400 \$294,400 80,000 \$18,000 9,700	\$214,400 113,950 151,950 3,000 \$483,300	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total. Inventory variation—Work in process: December 31, 1937. January 1, 1937. Cost of manufacturing.	\$100,000 194,400 \$294,400 80,000 \$18,000 9,700	\$214,400 113,950 151,950 3,000 \$483,300	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total. Inventory variation—Work in process: December 31, 1937. January 1, 1937. Cost of manufacturing. Inventory variation—Finished goods:	\$100,000 194,400 \$294,400 80,000 \$18,000 9,700	\$214,400 113,950 151,950 3,000 \$483,300 \$475,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total. Inventory variation—Work in process: December 31, 1937. January 1, 1937. Cost of manufacturing. Inventory variation—Finished goods: December 31, 1937.	\$100,000 194,400 \$294,400 80,000 \$18,000 9,700	\$214,400 113,950 151,950 3,000 \$483,300 \$475,000	
Statement of Profit and Loss For the Year Ended December 31, 19 Sales. Less—Discounts and allowances. Net sales. Deduct—Cost of sales: Raw materials: Inventory, January 1, 1937. Purchases. Total. Less—Inventory, December 31, 1937. Labor. Manufacturing expenses. Depreciation. Total. Inventory variation—Work in process: December 31, 1937. January 1, 1937. Cost of manufacturing. Inventory variation—Finished goods:	\$100,000 194,400 \$294,400 80,000 \$18,000 9,700	\$214,400 113,950 151,950 3,000 \$483,300 \$475,000	

Cost of sales		\$ 454,500
Gross profit on sales	•	62,500
Selling expenses. General expenses.	\$ 48,000 42,200	90,200
Net loss for the year ended December 31, 1937		\$ 27,700

Defects in the cost system and budgeting methods:

Average costs should never be used unless the number of units sold of each class is very nearly the same. Because of the better material used in grade A (which sold at the same price as the other grades), more than half of the total sales were of this class. As a result, profits were reduced for every sale made in this class.

Selling prices should be different for each of the grades.

No. 6 (40 points):

From the following information prepare a work sheet showing the consolidation of the A closer check should be made of the changes in the cost of materials, and selling prices adjusted accordingly.

A record should be kept of the number of units put in process and finished in order to account for spoilage, shortages, etc.

Budget revisions should be made with each substantial change in the cost of materials, labor and overhead, and selling prices adjusted accordingly.

balance-sheets of Top Company and its subsidiaries as at June 30, 1937:

BALANCE-SHEETS-June 30, 1937

Assets	Top Company	Black Company	White Company	Red Company
Cash	\$ 10,000	\$ 80,000	\$ 60,000	\$ 25,000
Accounts receivable	-	100,000	200,000	80,000
Inventories		200,000	300,000	100,000
Fixed assets	1,000	900,000	1,000,000	500,000
Prepaid expenses	500	5,000	6,000	3,000
Investments:				
Black Co.—\$300,000 bonds	275,000			
Black Co.— 10,000 shares	300,000			
White Co.— 6,000 shares	690,000			
Red Co.— 800 shares	80,000			
Intercompany accounts	300,000	12,000	15,000	
	\$1,656,500	\$1,297,000	\$1,581,000	\$708,000
Liabilities and Capital				
Accounts payable	\$ 10,000	\$ 95,000	\$ 94,000	\$150,000
Accrued taxes	5,000	10,000	18,000	4.000
Accrued interest		6,750	,	•
Intercompany accounts		10,000		310,000
Notes payable to Top Company		,	200,000	
Reserve for depreciation	500	400,000	350,000	250,000
6% mortgage bonds, due October 1, 1946		450,000	-	-
Capital stock—\$100 par	1,500,000	,	800,000	100,000
Capital stock—10,000 shares, no par	, ,	300,000	•	
Earned surplus (deficit *)	141,000	25,250	119,000	106,000*
	\$1,656,500	\$1,297,000	\$1,581,000	\$708,000

An analysis of Top Company's investment in subsidiaries shows the following:

	Date of	Shares or bonds acquired	Cost or	Surplus or deficit* of subsidiary at
	transaction	or sold *	Proceeds *	date of transaction
Black Company bonds (bought	Sept. 30, 1932	\$ 80,000	\$ 76,000	\$ 25,000
for the sinking fund)	Nov. 30, 1934	\$200,000	180,000	15,000*
- "	Dec. 29, 1936	\$ 20,000	19,000	12,000
Black Company stock	July 1, 1928	10,000 shs.	300,000	
White Company bonds	July 1, 1932	\$ 50,000	40,000	10,000*
• •	Oct. 1, 1935	\$ 50,000*	50,000* (Redeemed)	
White Company stock	July 1, 1929	8,000 shs.	1,000,000	100,000
	Dec. 1, 1936	2,000 shs.*	300,000* (Sold)	100,000
Red Company stock	Sept. 1, 1928	600 shs.	70,000	20,000
_	Sept. 1, 1932	200 shs.	10,000	5,000*

The Top Company was incorporated in 1926. In the same year it incorporated a wholly owned subsidiary, the Green Company, with paid-in capital of \$300,000. On July 1, 1928, the net assets of Green Company in the amount of \$250,000 were transferred to Black Company in exchange for its capital stock, which has a stated value of \$300,000. The difference between this stated value and the net assets taken over was added to the fixed assets of Black Company as representing goodwill. This goodwill amount has been amortized by Black Company by charges to operations at the rate of 5% per annum. Green Company was dissolved, the stock of Black Company being turned over to Top Company as a liquidating dividend. There has been no change in the share capital of the subsidiaries since their incorporation.

On June 29, 1937, White Company drew a check to the order of Top Company for \$2,000. This check was received and recorded by Top Company on July 1, 1937.

On June 3, 1937, Black Company shipped White Company merchandise in the amount of \$5,000. White Company's accounting department did not receive the invoice for these goods and did not record the liability therefor. However, on taking the physical inventory at June 30, 1937, this merchandise was included at the value of \$5,000.

At June 30, 1934, Black Company sold Red Company certain machinery for \$80,000. Red Company has provided depreciation on this amount for the years ended June 30, 1935, 1936, and 1937, at 10% per annum on the basis of an estimated useful life of ten years after the date of purchase. This machinery had cost Black Company \$75,000, and that company had provided a depreciation reserve of \$25,000 to June 30, 1934, on the basis of 63/3% per annum. Black Company took the \$30,000 book profit and eliminated from its accounts the cost of the machinery, as well as the accrued depreciation.

Inventories at June 30, 1937, included the following amounts purchased from affiliated companies:

•		June 30,
Company	Purchased from	1937
Red Company	White Company	\$25,300
Red Company	Black Company	16,500
White Company	Black Company	86,000

White Company sold its products to affiliated companies at 15% and Black Company at 25% above cost.

At June 30, 1937, Top Company had discounted at the bank \$200,000 notes receivable from White Company.

The Top Company has guaranteed the liabilities of the Red Company.

Solution:

* Red.

EXPLANATORY ADJUSTING ENTRIES

The investment in White Company stock account shows a balance of \$690,000. An analysis of the account would probably show:

Cost of 8,000 shares	\$1,000,000 300,000
Remainder	\$ 700,000
cost \$40,000.	10,000
Balance in the account, per books	\$ 690,000

The following entry adjusts for the bond profit:

(1)			
Investment—White Company stock		10,000	\$ 10,000
(2)			
Goodwill		50,000	22,500 27,500
To separate the goodwill arising from the purchase of the net assets of Green Company by Black Company and to credit the surplus account of the latter company for the portion of the goodwill amortized and charged to operations at the rate of 5% per annum since July 1, 1928. Stated value of stock issued by Black Company for the purchase	i 		
Goodwill purchased			
Remaining value in the fixed asset account	 -		
The problem states that "this goodwill amount has been amortized by Black Company by charges to operations," etc. On this statement, it is assumed that the goodwill (fixed asset) account was credited with the amount written off during the nine years. However, the candidate might assume that the asset was not reduced, and that the reserve for depreciation account was credited with the \$22,500. Further, the "goodwill" of \$50,000 might be considered as a loss to Green Company. Under such an interpretation, the charge would be to surplus account rather than to goodwill in entry (2).			
(3) Cash—Top Company	\$	2,000	
Intercompany accounts (asset)		2,000	\$ 2,000
To adjust the accounts for the check issued by White Company on June 29, 1937, but which was not received by the Top Company until July 1, 1937.	<u>.</u>		
(4)			
Surplus—White Company		5,000	5,000
To record the liability to Black Company for merchandise shipped to White Company. The merchandise was inventoried by the latter company, but the liability was not recorded.			
(5)			
Intercompany accounts (asset)		5,000	5,000
To reduce the cost of the machinery bought from Black Company from \$80,000 to \$75,000 (the cost to Black Company).	l.		
(6)			
Intercompany accounts (asset)		25,000	25,000
To set up the depreciation on the fixed assets sold to Red Company by Black Company accrued up to the date of sale. At this point, the machinery bought from Black Company is carried at \$75,000 (the cost to Black Company), and the reserve for depreciation applicable to that machinery is carried at:	:		

•	•		
Depreciation to date of sale (entry number (6)) Depreciation at 10% per annum for 3 years on \$80,000, the	\$ 25,000		
value at which it is carried by Red Company	24,000		
Total	\$49,000		
On June 30, 1934, when Red Company purchased this machicarrying value on the books of Black Company was:			
Cost Reserve for depreciation	\$ 75,000 25,000		
Book value	\$ 50,000		
On that same date the "estimated useful life" was 10 years. He \$5,000 per year for the three years should be provided. The excitation of (\$24,000 less \$15,000) should be credited to surplus acconsolidation purposes, which is done in entry number (7) follow this entry has been posted, the net carrying value will be:	ess depre- count, for		
CostLess—	\$ 75,000		
Reserve for depreciation	40,000		
Balance to be written off over the next seven years at \$5,000 per annum	\$35,000		
			
Description Ded Company		\$ 9,000	
Reserve for depreciation—Red Company Surplus—Top Company To adjust the depreciation provided since July 1, 1934.		• -,	\$ 9,000
Surplus—Top Company To adjust the depreciation provided since July 1, 1934.		• 1,555	\$ 9,000
Surplus—Top Company		2,475	\$ 9,000 2,475
Surplus—Top Company	(\$25,300)		
Surplus—Top Company	(\$25,300)		
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price.	(\$25,300) elow: \$ 25,300 22,000		
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300).	(\$25,300) slow: \$ 25,300 22,000 \$ 3,300 slling com- 0) 75% of the elimi-		
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300). Profit (15% above cost). As the Top Company owns 75% of White Company (the sepany who has taken into its surplus account the profit of \$3,300 this profit, or \$2,475, is in the consolidated surplus and should nated. However, some accountants would eliminate the entire \$1.000.	(\$25,300) slow: \$ 25,300 22,000 \$ 3,300 slling com- 0) 75% of the elimi-		
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300). Profit (15% above cost). As the Top Company owns 75% of White Company (the sepany who has taken into its surplus account the profit of \$3,300 this profit, or \$2,475, is in the consolidated surplus and should	(\$25,300) elow: \$ 25,300 22,000 \$ 3,300 		2,475
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300). Profit (15% above cost). As the Top Company owns 75% of White Company (the sepany who has taken into its surplus account the profit of \$3,30 this profit, or \$2,475, is in the consolidated surplus and should nated. However, some accountants would eliminate the entire \$ (9) Surplus—Top Company. Reserve for intercompany profit in inventoried merchandise, from Black Company (wholly owned by Top Company),	(\$25,300) elow: \$ 25,300 22,000 \$ 3,300 Solution Solution	2,475	2,475
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300). Profit (15% above cost). As the Top Company owns 75% of White Company (the sepany who has taken into its surplus account the profit of \$3,300 this profit, or \$2,475, is in the consolidated surplus and should nated. However, some accountants would eliminate the entire \$1.000 the company. Reserve for intercompany profit in inventories. To reserve gainst the profit in the inventoried merchandise,	(\$25,300) elow: \$ 25,300 22,000 \$ 3,300 Solution Solution	2,475	2,475
Surplus—Top Company. To adjust the depreciation provided since July 1, 1934. (8) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve against the profit in the inventoried merchandise bought by Red Company from White Company, as shown be Selling price. Cost (100/115 of \$25,300). Profit (15% above cost). As the Top Company owns 75% of White Company (the sepany who has taken into its surplus account the profit of \$3,30 this profit, or \$2,475, is in the consolidated surplus and should nated. However, some accountants would eliminate the entire \$1.00 (9) Surplus—Top Company. Reserve for intercompany profit in inventories. To reserve gainst the profit in the inventoried merchandise, from Black Company (wholly owned by Top Company), below: Purchased by Red Company.	(\$25,300) elow: \$ 25,300 22,000 \$ 3,300 S 3,300 S 3	2,475	2,475

(10)

In this case, the selling company is 100% owned by Top Company, and the entire profit of \$20,500 should be eliminated from the consolidated surplus.

Notes payable to Top Company	\$200,000	\$200,000
To transfer the amount of the notes receivable from White Company which were discounted at the bank by Top Company to notes payable account, as they are now payable to someone outside of the consolidation.		
(11)		
Investments—Black Company bonds	25,000	25,000
To write up the cost of the investment in the bonds of Black Company to par value.		
In this solution, the credit is considered as surplus arising through consolidation. Another method which may be followed is to credit the amount of the discount to "discount on treasury bonds" account, and to transfer the amount applicable up to the date of the balance-sheet to surplus account.		
(12)		
Sinking fund bonds—Black Company	300,000	300,000
(13)		
Investment in White Company stock	50,000	50,000
Cost of 8,000 shares		
Cost of 0,000 singles		
Cost of 2,000 shares (¼ of \$1,000,000) \$ 250,000 Selling price of 2,000 shares		
Profit to surplus account		
A footnote to the consolidated balance-sheet should state that the liabilities of the Red Company are guaranteed by the Top Company.		
ELIMINATIONS		
(A)		
Surplus—Top Company	\$ 30,000	
Intercompany accounts		\$ 30,000
Selling price		
Cost		
Intercompany profit \$30,000		
		
Accrued interest	4,500	4,500
To eliminate the accrued interest payable to Top Company which company owns 3/3 of the outstanding bonds of Black Company (3/3 of \$6,750 is \$4,500).		
M ₩xjvvv/i		

(C)				
Intercompany accounts			\$325,000	****
Intercompany accounts				\$ 325 ,00 0
To eliminate the intercompany accounts.				
(D)				
Capital stock—Black Company Investment—Black Company stock			300,000	300,000
To eliminate the investment, at cost, of the whol	ly owned B	lack Com-		
pany.	•			
(E)				
Capital stock—White Company			600,000	
Surplus—White Company			75,000	
Investment—White Company stock				675,000
To eliminate the 75% interest in the stock and s	urplus of W	hite Com-		
pany at the date of acquisition, as shown below:	-			
	100%	75%		
Capital stock	\$800,000	\$600,000		
Surplus	100,000	75,000		
Totals	\$900,000	\$675,000		
				
It will be noted that the liabilities of Red Con amount due on intercompany accounts are in exces deficit is \$6,000 in excess of the par value of the capit interests have been wiped out. Under the circumsta charged against the consolidated surplus in the following the capital surplus in the following the capital surplus in the capital surplus i	s of its asso al stock, th nces, the ne	ts. As the e minority t deficit is		
(F)				
Capital stock—Red Company			100,000	
Surplus—Top Company			86,000	
Investment—Red Company stock				80,000
Surplus (Deficit)—Red Company				106,000
To eliminate the investment in Red Company.				

Consolidated Balance-sheet \$ 177,000 380,000 2,368,500 14,500 125,000	\$3,965,000
Goodwill	
Eliminations Cr Cr 675,000 (D) 80,000 (F) 80,000 (F) 325,000 (C)	\$1,410,000
ĹĀ	
WORKING PAPERS WORKING PAPERS Adjustments Dr. Ct. 2,000 (3) 5,000 (5) 5,000 (12) 50,000 (13) 5,000 (6) 50,000 (2) 6,000 (2) 6,000 (2) 6,000 (2) 6,000 (2) 6,000 (2)	\$334,500
***	\$467,000
ANY AND ITS BALANCE-SHRET June 30, 1937 Red Company \$ 25,000 \$ 80,000 100,000 500,000 3,000	\$708,000
TOP COMP CONSOLIDATE White Company \$ 60,000 200,000 1,000,000 6,000 15,000	\$1,581,000
Black Company \$ 80,000 100,000 200,000 900,000 5,000	\$1,297,000
Top Company \$ 10,000 1,000 500 275,000 300,000 80,000	\$1,656,500
Accounts Cash Accounts receivable Inventories Fixed assets Frepaid expenses Investments: Back Company bonds Par value \$300,000 Black Company—100% (10,000 shares) White Company—75% (6,000 shares) Red Company—80% (800 shares) Intercompany accounts Goodwill Sinking fund bonds—Black Company Total goodwill	

The Journal of Accountancy
88 8

AND ITS SUBSIDIARIES	CONSOLIDATED BALANCE-SHEET WORKING PAPERS
TOP COMPANY AND ITS	CONSOLIDATED BAL

	Consolidated	Balance-sheet \$ 349,000 37,000	2,250	1,016,500	450,000		1,500,000	J						22,975 22 6, 500	158,775	\$3,965,000
	Consolidated Surplus										\$100,525	47,750			\$158,775	
	Minority Interest						000'002*				æ	. 60		\$228,500		
June 30, 1937	Eliminations	či									4,500 (B)		106,000 (F)			\$1,520,500
		Dr.	4,500 (B) 325,000 (C)	,				300,000 (D)	600,000 (E)	100,000 (F)	86,000 (F) 30,000 (A) \$	75,000 (E)			•	\$1,520,500
	Adjustments	•	# €	<u> </u>	8	9		ĸ	উ	*		83	€	<u> </u>		•
		ö	5,000	, ``	200 000 (10)	30					(9) 10,000 (1) (8) 25,000 (11) 50,000 (13)	22,500	2.475	20,500		\$703,975
		, Ö.		\$ 9,000 (7) 200,000 (10)							20,500 (9 2,475 (8	5,000 (4)				\$703,975
	Red Company \$150,000 4,000 310,000 250,000								100,000			106,000*			\$708,000	
	White	Company \$ 94,000 18,000		350,000					800,000			119,000				\$1,581,000
	Rlack	Company \$ 95,000 10,000	6,750	400,000	450,000			300,000				25,250				\$1,297,000
	ģ	>88		200			1,500,000				141,000					\$1,656,500
		Accounts Accounts payable	Accrued interest	Reserve for depredation	6% mortgage bonds due October 1, 1946.	Capital stock: Ton Company—15.000 shares.	\$100 parRlack Commanw—10 000 shares.	no par	\$100 par. White-minority interest-25%	Red Company—1,000 shares, \$100 par	Top Company	Black Company White Company	White—minority interest—25% Red Company	inventories	Total consolidated surplus	