CONT 3106 SOLUTIONS FOR PROBLEMS AND EXERCISES OF CHAPTERS 11, 12 & 4 SECOND SEMESTER 2012-2013

CHAPTER 11

Problem 11-1C

Type of Activity	Cash Inflow or	
	Outflow	Transaction
F	CI	1. Issuance of common stock
F	CI	2. Issuance of bonds
I	CO	3. Investment in bonds
I	CI	4. Collection of a note receivable
O	CI	5. Sale of inventory
F	CO	6. Repayment of note payable
F	CO	7. Payment of a cash dividend
I	CO	8. Purchase of land for cash
F	CI	9. Reissue of treasury stock
O	CI	10. Collection of an account receivable
F	CI	11. Issuance of a note payable
O	CO	12. Payment of employee salaries
I	NE	13. Sale of equipment for a note receivable
O	CO	14. Payment of interest on bonds payable
I	CI	15. Sale of a building

Problem 11-2C

Alpha Technologies Statement of Cash Flows For the Year Ended December 31, 2012				
Cash Flows from Operating Activities				
Net income \$ 80,000				
Adjustments for noncash effects:				
Depreciation expense 20,000				
Loss on sale of land 7,000				
Increase in accounts receivable (60,000)				
Increase in inventory (30,000)				
Increase in prepaid rent (10,000)				
Increase in accounts payable 10,000				
Net cash flows from operating activities \$ 17,	,000			
Cash Flows from Investing Activities				
Cash received from sale of land 3,000				
Purchase of equipment (220,000)				
Net cash flows from investing activities (217,0	000)			
Cash Flows from Financing Activities				
Issuance of common stock 250,000				
Payment of dividends (40,000)				
Repayment of notes payable (50,000)				
Net cash flows from financing activities 160,	,000			
Net increase (decrease) in cash (40,0	000)			
Cash at the beginning of the period 80,	,000			
Cash at the end of the period \$40,	,000			

Problem 11-4C

Communication Acce Statement of Cash I For the Year Ended Decen	Flows	
Cash Flows from Operating Activities		
Net income	\$212,000	
Adjustments for noncash effects:		
Depreciation expense	38,000	
Gain on sale of land	(4,000)	
Decrease in accounts receivable	12,000	
Decrease in inventory	17,000	
Increase in prepaid rent	(2,000)	
Decrease in accounts payable	(18,000)	
Decrease in interest payable	(1,000)	
Increase in income tax payable	2,000	
Net cash flows from operating activities		\$256,000
Cash Flows from Investing Activities		
Purchase investment in stock	(95,000)	
Sale of land	34,000	
Net cash flows from investing activities		(61,000)
Cash Flows from Financing Activities		
Payment of cash dividends	(200,000)	
Net cash flows from financing activities		(200,000)
Net increase (decrease) in cash		(5,000)
Cash at the beginning of the period		187,000
Cash at the end of the period		\$182,000
Note: Noncash Activities		
Purchase equipment issuing a note payable		\$80,000

Problem 11-7C

Communication Acc		
Statement of Cash		
For the Year Ended Decer	nber 31, 2012	
Cash Flows from Operating Activities		
Cash received from customers	\$2,812,000	
Cash paid to suppliers	(1,901,000)	
Cash paid for operating expenses	(577,000)	
Cash paid for interest	(17,000)	
Cash paid for income taxes	(61,000)	
Net cash flows from operating activities		\$256,000
Cash Flows from Investing Activities		
Purchase investment in stock	(95,000)	
Sale of land	34,000	
Net cash flows from investing activities		(61,000)
Cash Flows from Financing Activities		
Payment of cash dividends	(200,000)	
Net cash flows from financing activities		(200,000)
Net increase (decrease) in cash		(5,000)
Cash at the beginning of the period		187,000
Cash at the end of the period		\$182,000
Note: Noncash Activities		
Purchase equipment issuing a note payable		\$80,000

Revenues	\$2,800,000
+ Decrease in accounts receivable	12,000
= Cash received from customers	\$2,812,000
Cost of goods sold	\$1,900,000
 Decrease in inventory 	(17,000)
= Purchases	1,883,000
+ Decrease in accounts payable	18,000
= Cash paid to suppliers	\$1,901,000
Operating expenses	\$575,000
+ Increase in prepaid rent	2,000
= Cash paid for operating expenses	\$577,000
Interest expense	\$16,000
+ Decrease in interest payable	1,000
= Cash paid for interest	\$17,000
Income tax expense	\$63,000
 Increase in income tax payable 	(2,000)
= Cash paid for income taxes	\$61,000

CHAPTER 12

Problem 12-1C Requirement 1

	The Sports Warehou Income Statements				
For the Year Ended December 31, 2012					
	Equipmer	nt	Apparel		
	Amount	%	Amount	%	
Sales	\$1,700,000	100.0	\$2,850,000	100.0	
Cost of goods sold	1,100,000	65.7	1,400,000	49.1	
Gross profit	600,000	35.3	1,450,000	50.9	
Operating expenses	250,000	14.7	500,000	17.6	
Operating income	350,000	20.6	950,000	33.3	
Other income (expense)	25,000	1.5	(60,000)	(2.1)	
Income before tax	375,000	22.1	890,000	31.2	
Income tax expense	90,000	5.3	280,000	9.8	
Net income	\$ 285,000	16.8	\$ 610,000	21.4	

Requirement 2

The apparel segment is more profitable. Net income is 21.4% of sales in that segment compared to only 16.8% of sales in the equipment segment. If these results continue, the company may want to place greater focus on the expansion of the more profitable apparel segment.

Problem 12-2C Requirement 1

Fe	The Sports Warel Income Stateme or the Years Ended D	ents		
			Increase (Dec	rease)
	2013	2012	Amount	%
Sales	\$ 4,700,000	\$ 4,550,000	\$ 150,000	3.3
Cost of goods sold	2,600,000	2,500,000	100,000	4.0
Gross profit	2,100,000	2,050,000	50,000	2.4
Operating expenses	690,000	750,000	(60,000)	(8.0)
Operating income	1,410,000	1,300,000	110,000	8.5
Other income (expense)	(40,000)	(35,000)	(5,000)	(14.3)
Income before tax	1,370,000	1,265,000	105,000	8.3
Income tax expense	400,000	370,000	30,000	8.1
Net income	\$ 970,000	\$ 895,000	\$ 75,000	8.4

Requirement 2

Sales and gross profit both increased about 3%. The company also managed to decrease operating expenses by 8%. This resulted in increases to operating income, income before tax, and net income around 8% as well.

Problem 12-3C Requirement 1

	The Sports Shack Balance Sheet December 31			
<u>Assets</u>	2012		2011	
	Amount	%	Amount	%
Current assets:				
Cash	\$ 218,000	7.1	\$ 196,000	6.8
Accounts receivable	680,000	22.0	880,000	30.4
Inventory	1,250,000	40.5	1,100,000	38.1
Supplies	90,000	2.9	65,000	2.3
Long-term assets:				
Equipment	1,200,000	38.9	900,000	31.1
Accumulated depreciation	(350,000)	(11.4)	(250,000)	(8.7)
Total assets	\$3,088,000	100.0	\$2,891,000	100.0
Liabilities and Stockholders' Equity Current liabilities: Accounts payable Interest payable Income tax payable Long-term liabilities: Notes payable Stockholders' equity:	\$ 65,000 4,000 40,000 400,000	2.1 0.1 1.3	\$ 55,000 6,000 30,000 300,000	1.9 0.2 1.1 10.4
Common stock	900,000	29.1	900,000	31.1
Retained earnings	1,679,000	54.4	1,600,000	55.3
Total liabilities and equity	\$3,088,000	100.0	\$2,891,000	100.0

Requirement 2

	The Sports Sha Balance Shee December 32	et		
	Yea	ır	Increase (Deci	rease)
Assets	2012	2011	Amount	%
Current assets:				
Cash	\$ 218,000	\$ 196,000	22,000	11.2
Accounts receivable	680,000	880,000	(200,000)	(22.7)
Inventory	1,250,000	1,100,000	150,000	13.6
Supplies	90,000	65,000	25,000	38.5
Long-term assets:				
Equipment	1,200,000	900,000	300,000	33.3
Accumulated depreciation	(350,000)	(250,000)	(100,000)	(40.0)
Total assets	\$3,088,000	\$2,891,000	\$197,000	6.8
<u>Liabilities and Stockholders' Equity</u> Current liabilities:				
Accounts payable	\$ 65,000	\$ 55,000	10,000	18.2
Interest payable	4,000	6,000	(2,000)	(33.3)
Income tax payable	40,000	30,000	10,000	33.3
Long-term liabilities:	,	,	,	
Notes payable	400,000	300,000	100,000	33.3
Stockholders' equity:			,	
Common stock	900,000	900,000	0	0
Retained earnings	1,679,000	1,600,000	79,000	4.9
Total liabilities and equity	\$3,088,000	\$2,891,000	\$197,000	6.8

Problem 12-4C

Risk Ratios	<u>Calculations</u>	
1. Receivable turnover ratio	\$6,600,000 (\$680,000 + \$880,000) / 2	= 8.5 times
2. Average collection period	365 8.5	= 42.9 days
3. Inventory turnover ratio	\$4,700,000 (\$1,250,000 + \$1,100,000) / 2	= 4.0 times
4. Average days in inventory	365 4.0	= 91.3 days

5. Current ratio	\$2,238,000 \$109,000	= 20.5 to 1
6. Acid-test ratio	<u>\$218,000 + \$680,000</u> \$109,000	= 8.2 to 1
7. Debt to equity ratio	\$509,000 \$2,579,000	= 19.7%
8. Times interest earned ratio	\$270,000 + \$50,000 + \$80,000 \$50,000	= 8.0 times

Problem 12-5C

<u>Profitability Ratios</u> <u>Calculations</u>

1. Gross profit ratio	\$1,900,000 \$6,600,000	= 28.8%
2. Return on assets	\$270,000 (\$3,088,000 + \$2,891,000) / 2	= 9.0%
3. Profit margin	\$270,000 \$6,600,000	= 4.1%
4. Asset turnover	\$6,600,000 (\$3,088,000 + \$2,891,000) / 2	= 2.2 times
5. Return on equity	\$270,000 (\$2,579,000 + \$2,500,000) / 2	= 10.6%
6. Price-earnings ratio	\$5.40 \$0.30	= 18.0 times

CHAPTER 4

Exercise 4-1

- 1. False
- 2. True
- 3. True
- 4. False
- 5. True

6. True

Exercise 4-2

- 1. True
- 2. False
- 3. True
- 4. True
- 5. False
- 6. False

Exercise 4-3

- 1. True
- 2. False
- 3. False
- 4. True
- 5. True
- 6. False
- 7. True
- 8. True
- 9. False

Exercise 4-4

- 1. Performance reviews
- 2. Physical controls
- 3. Separation of duties
- 4. Reconciliations
- 5. None
- 6. Proper authorization