Solutions Chapter 16

Exercise 16.1

a. Income statement

Sales	275*\$125	\$34,375
Cost of sales	250*\$30 + 25*\$50	\$ 8,750
		\$25,625

Balance sheet

Item	Calculations	Amount
Cash	275*\$125	\$34,375
Inventory	25*\$50 + 100*\$100	\$11,250
Total Assets		\$45,625
Equity		\$20,000
Earnings		\$25,625
Total Sources		\$45,625

b. Income statement

Sales	275*\$125	\$34,375
Cost of sales	100*\$100+50*\$50+125*\$30	\$16,250
		\$18,125

Balance sheet

Item	Calculations	Amount
Cash	275*\$125	\$34,375
Inventory	125*\$30	\$3,750
Total Assets		\$38,125
Equity		\$20,000
Earnings		\$18,125
Total Sources		\$38,125

c. Income statement

Sales	275*\$125	\$34,375
Cost of sales	275*\$50	\$13,750
		\$20,625

Balance sheet

Item	Calculations	Amount
Cash	275*\$125	\$34,375
Inventory	125*\$50	\$6,250
Total Assets		\$40,625
Equity		\$20,000
Earnings		\$20,625
Total Sources		\$40,625

Exercise 16.2

Total sales = 120 units. Ending inventory = 130 units.

a. Income statement

	Revenues	Cost of sales	Profit
1	50*\$80 = \$4,000	50*\$50 = \$2,500	\$1,500
2	30*\$100 = \$3,000	30*\$50 = \$1,500	\$1,500
3	40*\$125 = \$5,000	20*\$50 + 20*\$60 = \$2,200	\$2,800
			\$5,800

ltem	Calculations	Amount
Cash	\$12,000 - \$11,300	\$ 700
Inventory	(60*\$60)+(60*\$90)+(10*\$110)	\$10,100
Total Assets		\$10,800
Equity		\$5,000
Earnings		\$5,800
Total Sources		\$10,800

b. Income statement

-				
	Revenues	Cost of sales	Profit	
1	50*\$80 = \$4,000	50*\$60 = \$3,000	\$1,000	
2	30*\$100 = \$3,000	30*\$90 = \$2,700	\$ 300	
3	40*\$125 = \$5,000	30*\$90 + 10*\$60 = \$3,300	\$1,700	
			\$ 3,000	

Balance Sheet

ltem	Calculations	Amount
Cash		\$700
Inventory	100*\$50 + 20*\$60 + 10*\$110	\$7,300
Total Assets		\$8,000
Equity		\$5,000
Earnings		\$3,000
Total Sources		\$8,000

LIFO periodic cost of sales = 10*\$110 + 60*\$90 + 50*\$60 = \$9,500. Profit = \$12,000 - \$9,500 = \$2,500.

Item	Calculations	Amount
Cash		\$700
Inventory	100*\$50 + 30*\$60	\$6,800
Total Assets		\$7,500
Equity		\$5,000
Earnings		\$2,500
Total Sources		\$7,500

c. Income statement

	Revenues	Cost of sales	Profit
1	50*\$80 = \$4,000	50*\$54.44 = \$2,722.22	\$1,278
2	30*\$100 = \$3,000	30*\$65.67 = \$1,970.18	\$1,030
3	40*\$125 = \$5,000	40*\$65.67 = \$2,626.90	\$2,373
			\$4,681

Balance sheet

Item	Calculations	Amount
Cash		\$700
Inventory	120*\$65.67 + 10*\$110	\$8,981
Total Assets		\$9,681
Equity		\$5,000
Earnings		\$4,681
Total Sources		\$9,681

Average cost for period: (100*50 + 80*60 + 60*90 + 10*10)/250 = 65.2. Profit = 12,000 - 120*65.2 = 4,176.

Item	Calculations	Amount
Cash		\$700
Inventory	130*\$65.2	\$8,476
Total Assets		\$9,176
Equity		\$5,000
Earnings		\$4,176
Total Sources		\$9,176