### **Learning Goal 13**

#### **Multiple Choice**

- **1.** b
- 2. d A purchase discount is recorded when payment is made.
- 3. a The payment is within the discount period, so  $5,000 \times .02 = 100$ .
- **4.** b The discount is (\$1,000/.98) = \$1,020.41 \$1,000 = \$20.41 discount.
- 5.  $d (\$2,500 \times .99) + \$150 = \$2,625$
- **6.** c
- 7. d The return of the inventory increases inventory and reduces cost of goods sold.
- **8.** c **9.** a **10**. b **11.** a
- **12.** b Consignment of inventory does not change the ownership of the inventory.
- **13.** d

#### **Reinforcement Problems**

#### LG 13-1.

- a. The new contra accounts are sales returns and allowances and sales discounts. They reduce net sales, thereby reducing net income.
- b. FOB means "free on board" and for most merchants refers to the location during the shipping process at which title (ownership) of the merchandise transfers to the buyer. It is also used to refer to the location, up to which the seller is responsible for the shipping costs and after which the buyer is responsible for shipping costs (if no other shipping arrangement is made between them). FOB is especially important to determine exactly when a sale may properly be recorded and when a buyer must claim ownership of the merchandise.
- c. The following are income statement accounts, and therefore affect retained earnings in the stockholders' equity part of the equation. An increase in retained earnings increases stockholders' equity and a decrease in retained earnings decreases stockholders' equity: sales discounts, (decrease SE); sales returns and allowances, (decrease SE); and freight-out, (decrease SE).

Freight-in increases the asset merchandise inventory.

Cost of goods sold is not part of the accounting equation. It is a calculation on the income statement. (The same is true for gross profit and net income.)

- d. The buyer will pay  $1,000 \times .8 \times .98 = 784$ . A trade discount is an adjustment to the list price of merchandise, often given for large quantity or special-situation purchases. A purchase discount (the 2/10, n/30 terms) is given for quick payment; in this case, within 10 days. The trade discount is always calculated first and is generally not recorded as a separate item.
- e. A purchase return and allowance is recorded by the buyer. It records the amount of credit received from the seller for unsatisfactory merchandise. The same credit recorded on the books of the *seller* is a sales return and allowance.
- f. The \$500 cash payment may or may not result in a greater reduction in accounts payable, depending on when it is paid. If the payment is made within a discount period, it is usually considered to be a net amount, after a discount has been applied, For example, a 2% discount applied to a \$500 cash payment within a discount period results in a \$510.20 decrease in accounts payable that was recorded at the gross (invoice) amount. (Stated differently, we are asking: "\$500 is 98% of what amount?" This is \$500/.98 = \$510.20). A \$500 cash payment after the discount period simply results in a \$500 decrease in accounts payable.

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#### Learning Goal 13, continued

#### LG 13-1, continued

An invoice amount is the gross amount of a purchase before any discount is applied. Therefore a \$500 payment on the invoice amount will require \$500 cash if paid after the discount period or \$490 cash if paid within the discount period. (Stated differently, "What is 98% of a \$500 invoice?" Answer:  $$500 \times .98 = $490$  if paid within the discount period.)

#### LG 13-2.

- a. \$3,970 b. \$14,911 c. \$3,000 (\$147,000/.98 = \$150,000 - \$147,000)d. \$5,769 e. \$169,444 f. \$3,180 ( $\$159,000 \times .02 = \$3,180$ ) g. \$155,820 h. \$13,470
- i. \$220,500 (\$4,410/.02 = \$220,500) j. \$845 (calculate k first) k. \$215,010

	Merchandi	se Inventory		Cost of Go	ods Sold
Beginning inventory	-0-				
Purchases	220,500	4,410	Purchase discounts		
Freight-in	845	1,925	Purchase returns		
Cost of goods available	215,010				
Ending inventory	11,200	203,810	Cost of goods sold	203,810	

**LG 13-3.** See the table on page XXX for the solution.

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# **Learning Goal 13, continued**

### LG 13-4.

# **Buyer Company**

June 11	Merchandise Inventory	15,000	
	Accounts Payable		15,000
12	Merchandise Inventory	9,200	
	Accounts Payable		9,200
15	Accounts Payable	5,000	
	Merchandise Inventory		5,000
17	Merchandise Inventory	5,000	
	Accounts Payable		5,000
20	Accounts Payable	10,000	
	Merchandise Inventory		200
	Cash		9,800
	$(\$10,000 \times .98 = \$9,800)$		
22	Accounts Payable	9,200	
	Merchandise Inventory		90
	Cash		9,110
	$(\$9,000 \times .99) + \$200 = \$9,110$		
27	Accounts Payable	4,000	
	Merchandise Inventory		80
	Cash		3,920
	(\$3,920/.98 = \$4,000 invoice amount)		
29	Merchandise Inventory	150	
	Cash		150

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# **Learning Goal 13, continued**

LG 13-4, continued

## Seller Company

June 11	Accounts Receivable	15,000	
	Sales		15,000
	Cost of Goods Sold	12,000	
	Merchandise Inventory		12,000
12	Accounts Receivable	9,200	
	Cash		200
	S ales		9,000
	Cost of Goods Sold	7,500	
	Merchandise Inventory		7,500
1.5	Sales Returns and Allowances	5,000	
15		5,000	F 000
	Accounts Receivable	4.000	5,000
	Merchandise Inventory	4,000	4.000
	Cost of Goods Sold		4,000
17	Accounts Receivable	5,000	
	Sales		5,000
	Cost of Goods Sold	3,000	
	Merchandise Inventory		3,000
20	Cash	9,800	
20	Sales Discounts	200	
	Accounts Receivable	200	10.000
	Accounts Receivable		10,000
22	Cash	9,110	
	Sales Discounts	90	
	Accounts Receivable		9,200
27	Cash	3,920	
_,	Sales Discounts	80	
	Accounts Receivable		4,000
29	(No entry by seller)		

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# **Learning Goal 13, continued**

### LG 13-5.

a.

General Journal					
Date	Account	Ref.	Dr.	Cr.	
April					
2	Accounts Receivable		10,000		
	Sales			10,000	
	0 + (0 1 0 1)		ć <b>5</b> 00		
	Cost of Goods Sold		6,500	C = 0.0	
	Merchandise Inventory			6,500	
4	Merchandise Inventory		12,000		
	Accounts Payable		,	12,000	
				,,,,,,	
7	Cash		2,226		
	Sales			2,100	
	Sales Tax Payable			126	
	Cost of Goods Sold		1,000		
	Merchandise Inventory			1,000	
8	Accounts Receivable		5,000		
0	Sales		3,000	5,000	
	oules			3,000	
	Cost of Goods Sold		3,250		
	Merchandise Inventory			3,250	
12	Accounts Receivable		8,500		
	Sales			8,500	
	Cost of Goods Sold		5.250		
			5,250	F 250	
	Merchandise Inventory			5,250	
14	Sales Returns and Allowances		200		
	Sales Tax Payable		12		
	Cash			212	
	Merchandise Inventory		100		
	Cost of Goods Sold			100	
15	Cash		4,900		
	Sales Discounts		100		
	Accounts Receivable			5,000	

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# **Learning Goal 13, continued**

### LG 13-5, continued

General Journal					
Date	Account	Ref.	Dr.	Cr.	
April					
18	Accounts Receivable		18,000		
	Sales			18,000	
	0 . (0 1011		11.500		
	Cost of Goods Sold		11,700	11 500	
	Merchandise Inventory			11,700	
21	Cash		5,000		
	Sales Discounts		102		
	Accounts Receivable			5,102	
	(\$5,000/.98 = \$5,102 rounded)				
23	Cash		4,664		
	Sales			4,400	
	Sales Tax Payable			264	
	Cost of Goods Sold		2,220		
	Merchandise Inventory		2,220	2,220	
	ivierchandise mventory			2,220	
24	Cash		10,000		
	Accounts Receivable			10,000	
27	Cash		17,640		
	Sales Discounts		360		
	Accounts Receivable			18,000	
	$(\$18,000 \times .98 = \$17,640 \text{ rounded})$				
29	Sales Returns and Allowances		18,000		
2)	Sales Discounts		10,000	360	
	Cash			17,640	
				17,010	
	Merchandise Inventory		11,700		
	Cost of Goods Sold			11,700	
30	Cash		3,398		
	Accounts Receivable			3,398	
30	Sales Tax Payable		378		
30	Cash		370	378	

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### **Learning Goal 13, continued**

#### LG 13-5, continued

b.

	General Journal					
Date	Account	Ref.	Dr.	Cr.		
April						
7	Cash		2,226			
	Sales			2,226		
14	Sales Returns and Allowances		212			
	Cash			212		
23	Cash		4,664			
	Sales			4,664		
30	Sales		378			
	Cash			378		

(\$2,226 - \$212 + \$4,664) = Net \$6,678 retail sales plus sales tax. Returned merchandise is notsubject to sales tax. 6,678/1.06 = 6,300 taxable retail sales before sales tax. 6,678 - 6,300 = 6,300\$378 sales tax. (After the Oct. 31 entry, the Sales account contains sales plus sales tax of (\$2,226 + \$4,664) = \$6,890 - \$378 = \$6,512. This is offset by \$212 in Sales Returns and Allowances (\$200sales plus \$12 sales tax), resulting in net sales with no sales tax, in other words, net sales before sales tax of \$6,300.)

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# **Learning Goal 13, continued**

#### LG 13-6.

a.

Date	Account	Post. Ref.	Dr.	Cr.
March 2	Accounts Receivable		5,200	
	Sales			5,200
2	Cost of Goods Sold		3,380	
	Merchandise Inventory		0,000	3,380
5	Accounts Receivable		7,000	
	Sales		7,000	7,000
_	0 . (0 1011		4.550	
5	Cost of Goods Sold  Merchandise Inventory		4,550	4,550
8	Sales Returns and Allowances  Accounts Receivable		900	900
8	Merchandise Inventory		585	F.0.1
	Cost of Goods Sold			585
11	Accounts Receivable		4,150	
	Sales Cash			4,000
	Casn			150
	Cost of Goods Sold		2,600	
	Merchandise Inventory			2,600
12	Cash		2,940	
	Sales Discounts		60	
	Accounts Receivable			3,000
15	Cash		5,880	
	Sales Discounts		120	
	Accounts Receivable			6,000
17	Accounts Receivable		15,000	
	Sales			15,000

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#### Learning Goal 13, continued

#### LG 13-6, continued

Date	Account	Post. Ref.	Dr.	Cr.
March 17	Cost of Goods Sold		9,750	
	Merchandise Inventory			9,750
17	Freight-out Expense		350	
	Cash			350
21	Cash		4,070	
	Sales Discounts		80	
	Accounts Receivable			4,150
26	Sales Returns and Allowances		1,000	
	Accounts Receivable			1,000
31	Cash		14,000	
	Accounts Receivable			14,000
31	Cash		1,000	
	Accounts Receivable			1,000

#### Comments:

March 15: This is a cash receipt within the discount period, so it is considered to be net of the discount—in other words, after a discount has been applied to a larger amount of the Accounts Receivable. This amount is calculated: \$5,880/.98 = \$6,000.

March 24: This sale is FOB destination, and there is no indication that the merchandise has arrived. Therefore, no sale can be recorded because ownership has not yet transferred to the buyer.

**March 26:** Notice that with an allowance, there is no return of inventory.

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## **Learning Goal 13, continued**

### LG 13-6, continued

b. A T account for Accounts Payable for Brooklyn Enterprises would look like this:

Accounts Payable		
	5,200	
900		
3,000		
	1,300	

The \$2,940 cash payment resulted in a \$3,000 debit to Accounts Payable because the payment was made within the discount period. This means that the \$2,940 is 98% of the part of the invoice amount that is being paid. The part of the invoice amount that is being paid is calculated as: \$2,940/.98 = \$3,000.

#### LG 13-7.

Date	Account	Post. Ref.	Dr.	Cr.
August 1	Merchandise Inventory		12,000	
	Accounts Payable			12,000
2	Merchandise Inventory		4,100	
	Accounts Payable			4,100
7	Accounts Receivable		8,000	
	Sales			8,000
7	Cost of Goods Sold		4,500	
	Merchandise Inventory			4,500
9	Accounts Receivable		4,000	
	Sales			4,000
9	Cost of Goods Sold		2,100	
	Merchandise Inventory			2,100
10	Accounts Payable		2,000	
	Merchandise Inventory			2,000

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# **Learning Goal 13, continued**

### LG 13-7, continued

Date	Account	Post. Ref.	Dr.	Cr.
August 11	Accounts Payable		10,000	
	Merchandise Inventory			200
	Cash			9,800
	Merchandise Inventory		150	
	Cash			150
12	Accounts Payable		4,100	
	Merchandise Inventory			40
	Cash			4,060
15	Sales Returns and Allowances		500	
	Accounts Receivable			500
	Merchandise Inventory		275	
	Cost of Goods Sold		2,0	275
16	Accounts Receivable		10,000	
	Sales			10,000
16	Cost of Goods Sold		6,500	
10	Merchandise Inventory		0,500	6,500
	Merchandisc inventory			0,500
17	Cash		2,425	
	Sales Discounts		75	
	Accounts Receivable			2,500
18	Cash		3,880	
10	Sales Discounts		120	
	Accounts Receivable		120	4,000
	Accounts Accelvable			4,000
24	Merchandise Inventory		25,000	
	Accounts Payable			25,000

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### **Learning Goal 13, continued**

#### LG 13-7, continued

Date	Account	Post. Ref.	Dr.	Cr.
August 25	Cash		2,910	
	Sales Discounts		90	
	Accounts Receivable			3,000
31	Cash		24,500	
	Notes Payable			24,500
31	Accounts Payable		25,000	
	Merchandise Inventory			500
	Cash			24,500
31	Cost of Goods Sold		1,800	
	Merchandise Inventory			1,800

#### Comments:

- **August 17:** The payment received from Baton Rouge Corporation is \$2,500 of the *invoice* (gross) amount, so the discount is based on this amount.
- August 25: The payment received from St. Petersburg Company is the amount of cash received. Because this is within the discount period, the cash is considered to be the amount after applying the discount percent, which means that it is 97% of the larger amount. So, \$2,910/.97 = \$3,000 determines the amount of the receivable to credit.
- **August 27:** The purchase from Orlando Company is FOB *destination*, and there is no indication that the goods have arrived, so title has not transferred to buyer. If title of goods has not transferred to buyer, there is no purchase to record yet.

**August 31:** The \$1,800 is inventory shrinkage.

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