CHAPTER 11

MULTINATIONAL ACCOUNTING: FOREIGN CURRENCY TRANSACTIONS AND FINANCIAL INSTRUMENTS

ANSWERS TO QUESTIONS

Q11-1 Indirect and direct exchange rates differ by which currency is desired to be expressed in another currency. An indirect exchange rate is the number of foreign currency units that may be obtained for one local currency unit. The indirect exchange rate has the foreign currency unit in the numerator. As a fraction, the indirect exchange rate is expressed as follows:

Number of foreign currency units One local currency unit

A direct exchange rate is the number of local currency units needed to acquire one foreign currency unit. The direct exchange rate has the local currency units in the numerator (the U.S. dollar for the direct exchange rate for the U.S. dollar). As a fraction, the direct exchange rate is expressed as follows:

Number of local currency units One foreign currency unit

The indirect and direct exchange rates are inversely related and both state the same relationship between two currencies.

Q11-2 The direct exchange rate can be calculated by taking the inverse of the indirect exchange rate. Such a computation follows:

Number of foreign currency units	_	C\$1.3623 (Canadian dollars)
One local currency unit	=	\$1.00 (U.S. dollars)

The inverse of the indirect exchange rate is:

$$\frac{\$1.00 (U.S. \text{ dollars})}{C\$1.36 (Canadian \text{ dollars})} = \$0.7340$$

Q11-3 When the U.S. dollar strengthens against the European euro, imports from Europe into the U.S. will be less expensive in U.S. dollars. The direct exchange rate decreases, indicating that it takes fewer dollars to acquire European euros.

Q11-4 A foreign transaction is a transaction that does not involve the exchange of currencies on the part of the reporting entity. An example of a foreign transaction is the sale of equipment by a U.S. company (the reporting entity) to a Japanese firm that is denominated in U.S. dollars.

A foreign currency transaction is a transaction that does involve the exchange of currencies on the part of the reporting entity. An example of a foreign currency transaction is the sale of equipment by a U.S. company (the reporting entity) to a Japanese firm that is denominated in Japanese yen.

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Q11-5 There are many types of economic factors that affect currency exchange rates, among which are the level of inflation, the balance of payments, changes in interest rates and investment levels, and the stability and process of governance. One example of an economic factor that results in a weakening of the U.S. dollar versus the European euro is a higher level of inflation in the U.S. relative to the inflation in Europe.

Q11-6 Assets and liabilities denominated in a foreign currency are measured according to the requirements in **ASC 830** for those arising from normal purchase and sale transactions, and by **ASC 815** for forward exchange contracts and hedging activities. **ASC 830** specifies that the valuation at the transaction date and each subsequent balance sheet date should be at the local currency equivalent using the spot rate of exchange. Forward exchange contracts are valued at fair value, typically by using the forward rate for the remainder of the term of the forward contract.

Q11-7 Foreign currency transaction gains or losses are recognized in the financial statements in the period in which the exchange rate changes. These gains or losses are reported on the income statement.

Q11-8 If the direct exchange rate increases, the Sun Company will experience a foreign currency transaction loss on its \$200,000 account payable that is denominated in Canadian dollars. The increase in the direct exchange rate shows that the U.S. dollar has weakened relative to the Canadian dollar, requiring more U.S. dollars be used to pay the debt owed.

Q11-9 Four ways a U.S. company can manage the risk of changes in the exchange rates for foreign currencies are to (1) use a forward contract to offset an exposed foreign currency position, (2) hedge a firm foreign currency commitment as a fair value hedge, (3) hedge an anticipated foreign transaction as a cash flow hedge, or (4) speculate in foreign currency markets. One example of a U.S. company hedging against the risk of changes in the exchange rates for foreign currencies is to use a forward exchange receivable contract to partially offset the effects of changes in the exchange rates of the foreign currency liability.

Q11-10 An exposed net asset position occurs when a company's trade receivables and other assets denominated in a foreign currency are greater than its liabilities denominated in that currency. An exposed net liability position occurs if a company's liabilities denominated in a foreign currency exceed receivables denominated in that currency.

Q11-11 A difference usually exists between a currency's spot rate and forward rate because of the different economic factors involved in the determination of a future versus present rate of exchange. This difference is usually positive because of uncertainty and conservatism toward the future. For example, if inflation is assumed to continue into the future in the foreign country whose currency is being acquired, the forward rate will be higher than the spot rate because of the decreasing purchasing power of the currency. In addition, the time value of money factor will typically result in a higher forward exchange rate than the spot exchange rate.

Q11-12 (a) When an exposed foreign currency position exists, either an exposed net asset or net liability position is created. The forward contract is valued at fair value, usually by the forward exchange rate for the remainder of the term of the forward contract. The underlying payable or receivable from the foreign currency transaction is valued at the spot rate at the time of the transaction and adjusted to the current spot rate at each balance sheet date. (b) For a hedge of an identifiable foreign currency commitment, both the financial instrument and the forward contract aspects of the hedge are valued at the forward rate. An account, termed firm commitment, is created during the term of the forward contract to recognize the change in value of the financial instrument aspect of the firm commitment. (c) For a cash flow hedge of a forecasted transaction, the forward contract is valued at the forward rate, but the effective portion of the change in the fair value of the forward contract is recognized in other comprehensive income. The gain or loss on the re-measured foreign currency denominated account payable or receivable is offset from a reclassification of other comprehensive income so that there is no net exchange gain or loss from this hedge. (d) A speculative forward contract is not a hedge, but rather is a derivative that is valued at fair value by using the forward exchange rate for the remainder of the forward contract's term.

Gains or losses on these forward contracts are recognized in income in the period in which they occur.

SOLUTIONS TO CASES

C11-1 Effects of Changing Exchange Rates

a. The major factors influencing the demand for the U.S. dollar on the foreign exchange markets are (1) rate of inflation, (2) the interest and investment rates, (3) balance of payments, and (4) alternative investment opportunities. For example, the demand for the U.S. dollar weakens as inflation rates increase, interest rates decrease, the balance of payments becomes an increasingly high deficit, and alternative investments in other countries are more readily available.

b. As the dollar drops in value in relation to other currencies:

(1) Exports from the U.S. to the other country become less expensive and foreign buyers tend to increase their orders for U.S. goods. For example, assume the U.S. dollar weakened relative to a foreign currency unit (FCU) as follows:

direct exchange rate	=	\$0.50 / 1 FCU
after weakening	=	\$0.60 / 1 FCU

This would mean that a U.S.-manufactured machine selling for \$10,000 would cost the foreign customer 20,000 FCU before the weakening of the dollar (10,000 = 20,000 FCU x \$0.50). After the weakening of the dollar, this same machine would cost the foreign customer 16,667 FCU (10,000 = 16,667 FCU x \$0.60). This means a significant price reduction for the foreign buyer, thereby increasing the foreign demand for the U.S.-manufactured machine.

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(2) The opposite effect occurs for the U.S. business firm as the dollar weakens. Foreign-made goods are now more expensive as it takes more dollars to acquire imports. For example, a foreign-made part selling for 10 FCU before the weakening costs the U.S. company $$5.00 ($5.00 = 10 FCU \times $0.50)$. After the dollar weakens, the same part now costs the U.S. company $$6.00 ($6.00 = 10 FCU \times $0.60)$. This increase of \$1.00 per part is due solely to the weakening of the U.S. dollar relative to the foreign currency. Nevertheless, the U.S. business firm is subject to a very significant increase in the cost of its inputs.

c. As the dollar weakens, imports become more expensive for the U.S. consumer. In addition, as in case b(2) above, the U.S.-based manufacturer using foreign-made components for its products must now pass the higher costs on to its customers. Thus, U.S. consumers have to pay higher prices for their goods that have foreign elements.

C11-2 Reporting a Foreign Currency Transaction on the Financial Statements [AICPA Adapted]

a. Bow should report a foreign exchange loss on its 20X5 income statement. This loss is calculated by taking the number of pounds that are due in 20X6 and multiplying them by the change in the direct exchange rate from the transaction date to the balance sheet date. Since the U.S. dollar weakened, the direct exchange rate on December 31, 20X5, would be higher than the direct exchange rate on November 30, 20X5. The increase in the direct exchange rate means that more U.S. dollars would be needed to purchase pounds at December 31, 20X5, than at November 30, 20X5. Therefore, a foreign currency transaction loss should be reported in 20X5 because the exchange rate changed during 20X5. In addition, the accounts payable denominated in pounds should be reported at the exchange rate at December 31, 20X5, would have to be increased in order to reflect a weakening U.S. dollar.

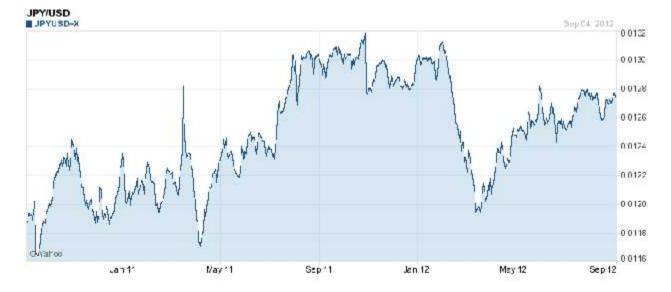
b. Reporting a foreign exchange loss in 20X5 is appropriate because, consistent with accrual accounting, the exchange rate on December 31, 20X5, should be used to value the accounts payable denominated in pounds. Bow's beliefs as to future exchange rate movements are excluded from the financial statements.

C11-3 Changing Exchange Rates

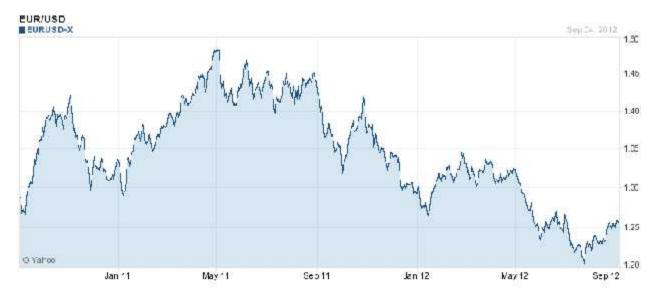
Note to Teacher: Currency exchange rates may be found in a variety of places on the Internet. A good site is <u>http://finance.yahoo.com/currency-investing</u>. Note that to obtain the direct exchange rate, students will have to specify the conversion as the foreign currency units into U.S. Dollars. After clicking the link for the conversion, both the current exchange rate and a chart of historical exchange rates are presented. There are various options for the length of time shown on the chart; the student should select the 2-year chart. Other sites can be found using a search engine and search terms such as "historical currency exchange rates."

C11-3 (continued)

Japanese Yen:



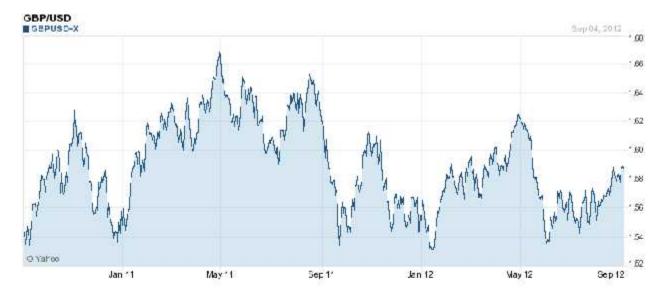
European Euro:



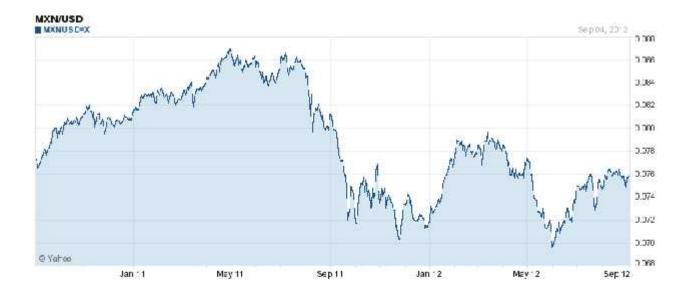
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C11-3 (continued)

British Pound:



Mexican Peso:



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C11-4 Accounting for Foreign Currency-Denominated Accounts Payable

MEMO

TO: Marie Lamont, Manager, Mardi Gras audit

From: _____, CPA

Re: Mardi Gras Corporation's Foreign Currency Transactions

Our client, Mardi Gras Corporation, needs to change its method of accounting for the effects of changes in the exchange rate for Swiss francs. Currently, any difference between the liability recorded when the merchandise is received and the amount that is paid (in U.S. dollars) when the liability is settled is recorded by our client as an adjustment to the cost of the inventory purchased. However, this difference is the result of changes in the exchange rate for Swiss francs between the date of the inventory purchase and the payment date and is not the result of changes in the price of the merchandise.

Mardi Gras's purchases from the Swiss company are foreign currency transactions that result in Mardi Gras recording a payable denominated in Swiss francs. The liability is fixed in terms of the amount of Swiss francs that must be paid.

Mardi Gras is recording the payable appropriately since they are using the exchange rate on the date of the inventory purchase to convert the francs to dollars. This is consistent with requirements in **ASC 830**. However, the accounting for subsequent changes in the U.S. dollar equivalent of the Swiss franc liability is not acceptable. Rather than an adjustment to the cost of inventory, changes in the liability that result because of changes in the exchange rate between the U.S. dollar and the Swiss franc must be recognized as a foreign currency transaction gain or loss and must be included in net income in the period in which the rate change occurs.

Mardi Gras should also be aware that any outstanding foreign currency payables at the balance sheet date should be adjusted to their U.S. dollar equivalent using the exchange rate in effect on the balance sheet date, with any resulting foreign currency transaction gains or losses included in earnings of the current period.

Disclosure of the aggregate gain or loss from foreign currency transactions used in determining net income for a given period is also required.

Authoritative support for this memo can be found in the following references:

ASC 830-20-30, ASC 830-20-35, ASC 830-20-50

C11-5 Accounting for Foreign Currency Forward Contracts

MEMO

To: Lindsay Williams, Treasurer

From: _____, CPA, Assistant Treasurer

Re: Financial Statement Effects of Foreign Currency Forward Contract

Avanti has entered into a contract to purchase equipment for a fixed price of 4.5 million euros. This agreement meets the definition of an unrecognized firm commitment that has both contractual rights and contractual obligations. The fixed price of the firm commitment exposes the company to the fair value risk of changes in the price of the equipment. However, because the purchase price is denominated in euros, the contract also exposes the company to the risk of changes in the value of the foreign currency. The company may enter into a derivative contract. **ASC 815-20-25** allows such a derivative contract of a foreign currency exposure of an unrecognized firm commitment to be designated as a hedge.

If Avanti elects to use a forward exchange contract to fix the exchange rate to purchase euros, the company can designate the forward contract as a foreign currency fair value hedge of the foreign currency exposure in the firm commitment if there is formal documentation of the hedging relationship and the rationale for the management's decision to use the hedge, and if the effectiveness of the hedge is assessed before every reporting date and at least every three months.

If the forward contract qualifies as a foreign currency fair value hedge, the gain or loss on the hedge and the offsetting gain or loss on the hedged firm commitment should be recognized in earnings in the same accounting period.

Therefore, during the commitment period, there will be no effect on the income statement; the gain or loss on the derivative will be offset by the loss or gain on the firm commitment.

After the equipment is delivered, a foreign currency denominated payable will be recorded and accounted for under **ASC 830-20-30**. Transaction gains or losses on the foreign currency liability may continue to be offset by changes in the fair value of the forward contract.

Authoritative support for this memo can be found in the following references:

ASC 815-20-25-23 through ASC 815-20-25-33, ASC 830-20-30

C11-6 Accounting for Hedges of Available-for-Sale Securities

MEMO

To: Mark Becker, CFO

From: _____, CPA, Investment Division

Re: Hedge Accounting—Bond Portfolio

The proposal has been made to use an interest rate futures contract to hedge the interest rate risk associated with Rainy Day's portfolio of bond investments. Although the use of the derivative may be expected to offset the changes in the value of the bond portfolio, the issue that must be considered is whether the use of this derivative would qualify for hedge accounting under **ASC 815-20-25**. If hedge accounting cannot be used, the changes in the fair value of the futures contract will be included in net income. However, the changes in the fair value of the bond portfolio will continue to be reported as other comprehensive income, but not in net income.

ASC 815-20-25 does allow a portfolio of similar assets or similar liabilities to be designated as the hedged item under certain conditions. The change in value of any item in the portfolio must be generally proportionate to changes in value for the entire portfolio. To meet this condition, Rainy Day should be able to demonstrate that the values of the individual bonds within the portfolio respond to interest rate changes in a proportionate manner to the overall portfolio response. Given the wide range of maturity dates on the bonds in the portfolio, this condition may be difficult to meet.

If the aggregation criteria are not met, Rainy Day could consider aggregating bonds of similar maturities into several sub-portfolios and using multiple derivatives to hedge the interest rate risk associated with each group of bond investments. This subdividing of the bond portfolio would also make it easier to demonstrate if the hedge is effective.

If hedge accounting is allowed, the effect on earnings of the derivative will be offset by the changes in the fair value of the bond investment.

Authoritative support for this memo can be found in the following references:

ASC 815-20-25

SOLUTIONS TO EXERCISES

E11-1 Exchange Rates

- a. Indirect exchange rates for pounds and dollars:
 \$1.00 = .625 British pounds (1 pound / \$1.60)
 \$1.00 = 1.3514 Canadian dollars (1 Canadian dollar / \$0.74)
- b. FCU = $\frac{\$}{\text{Direct Exchange Rate}}$ = $\frac{\$8,000}{\$1.60}$ = 5,000 British pounds
- c. 4,000 Canadian dollars x \$0.74 = \$2,960

E11-2 Changes in Exchange Rates

a. Exchange rates:

	Arrival Date	Departure Date
Direct	1 florin = \$0.20	1 florin = \$0.15
Exchange Rate	(\$200 / 1,000 florins)	(\$15 / 100 florins)
Indirect	\$1.00 = 5 florins	\$1.00 = 6.67 florins
Exchange Rate	(1,000 florins / \$200)	(100 florins / \$15)

- b. The direct exchange rate has decreased. This means that the dollar has strengthened during Mr. Alt's visit. For example, upon arrival, Mr. Alt had to pay \$0.20 per each florin. Upon departure, however, each florin is worth just \$0.15. This means that the relative value of the dollar has increased or, alternatively, the value of the florin has decreased.
- c. The U.S. dollar equivalent values for the 100 florins are:

Arrival date	
100 florins x \$0.20 =	\$20
Departure date	
100 florins x \$0.15 =	<u>15</u>
Foreign Currency Transaction Loss	\$5

Mr. Alt held florins for a time in which the florin was weakening against the dollar. Thus, Mr. Alt experienced a loss by holding the weaker currency.

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E11-3 Basic Understanding of Foreign Exposure

a. If the direct exchange rate increases, the U.S. dollar weakens relative to the foreign currency unit. If the indirect exchange rate increases, the U.S. dollar strengthens relative to the foreign currency unit.

b.

	Settlement	Direct Exchange Rate		Indirect Exchange Rate	
Transaction	Currency	Increases	Decreases	Increases	Decreases
Importing	Dollar	NA	NA	NA	NA
Importing	LCU	L	G	G	L
Exporting	Dollar	NA	NA	NA	NA
Exporting	LCU	G	L	L	G

E11-4 Account Balances

		Foreign C	urrency Units (€)		
From receivable: (€250,000 x \$0.58)	$\langle \mathbf{Z} \rangle \circ \langle \mathbf{A} \rangle \langle \mathbf{Z} \rangle$	4.45.000	To payable: (€125,000 x \$0.58)	$(0) 0/4/\sqrt{2}$	70 500
(€250,000 X \$0.56)	(7) 2/1/x7	145,000	(€125,000 X \$0.56)	(8) 2/1/x7	72,500
	Bal. 2/2/x7	72,500			
		Accounts	s Receivable (€)		
(€250,000 x\$0.60)	(1) 11/1/x6	150,000			
[€250,000 x (\$0.62 - \$0.60)]	(3) 12/31/x6 AJE	5,000			
(€250,000 x \$0.62)	Bal. 12/31/x6	155,000	[€250,000 x (\$0.58 - \$0.62)]	(5) 2/1/x7 AJE	10,000
(€250,000 x \$0.58)	Bal. 2/1/x7	145,000	(€250,000 x \$0.58)	(7) 2/1/x7 Settle	145,000
	Bal. 2/2/x7	-0-			
		Accourt	its Payable (€)		
		Accour			75 000
			(€125,000 x \$0.60)	(2) 11/1/x6	75,000
			[€125,000 x (\$0.62 - \$0.60)]	(4) 12/31/x6 AJE	2,500
			(€125,000 x \$0.62)	Bal. 12/31/x6	77,500
[€125,000					

x (\$0.58 - \$0.62)]	(6) 2/1/x7 AJE	5,000			
(€125,000 x \$0.58)	(8) 2/1/x7 Settle	72,500	(€125,000 x \$0.58)	Bal. 2/1/x7	72,500
				Bal. 2/2/x7	-0-

Foreign Currency Transaction Loss						
[€125,000						
x (\$0.62 - \$0.60)]	(4) 12/31/x6 AJE	2,500				
[€250,000						
x (\$0.58 - \$0.62)]	(5) 2/1/x7 AJE	10,000				

Foreign Currency Transaction Gain

 [€250,000 x (\$0.62 - \$0.60)]	(3) 12/31/x6 AJE	_5,000
[€125,000 x (\$0.58 - \$0.62)]	(6) 2/1/x7 AJE	5,000

11-12

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	Accounts <u>Receivable</u>	Accounts Payable	Foreign Currency Transaction <u>Exchange</u> Loss	Foreign Currency Transaction <u>Exchange Gain</u>
Case 1	NA	<u>\$16,000(a)</u>	NA	<u>\$2,000(b)</u>
Case 2	<u>\$38,000(c)</u>	NA	NA	<u>\$2,000(d)</u>
Case 3	NA	<u>\$27,000(e)</u>	<u>\$3,000(f)</u>	NA
Case 4	<u>\$6,250(g)</u>	NA	<u>\$1,250(h)</u>	NA
(b) (c)	LCU 40,000 x LCU 40,000 x LCU 20,000 x	(\$0.40 - \$0.45) \$1.90		

E11-5 Determining Year-End Account Balances for Import and Export Transactions

(d) LCU 20,000 x (\$1.90 - \$1.80) (e) LCU 30,000 x \$0.90

(f) LCU 30,000 x (\$0.90 - \$0.80)

(g) LCU 2,500,000 x \$0.0025

(h) LCU 2,500,000 x (\$0.0025 - \$0.003)

E11-6 Transactions with Foreign Companies

_	M		0.400	
a.	May 1	Inventory (or Purchases) Accounts Payable	8,400	8,400
		Foreign purchase denominated in U.S. dollars.		0,400
		r oroign paronado aonormitatoa in olo. aonaro.		
	June 20	Accounts Payable	8,400	
		Cash		8,400
		Settle payable.		
	July 1	Accounts Receivable	10,000	
	oury i	Sales	10,000	10,000
		Foreign sale denominated in U.S. dollars.		<u> </u>
	August 10	Cash	10,000	
	August 10	Accounts Receivable	10,000	10,000
		Collect receivable.		10,000
b.	May 1	Inventory (or Purchases)	8,400	
	2	Accounts Payable (¥)		8,400
		Foreign purchase denominated in yen: \$8,400 /	\$0.0070 = ¥1,	200,000
	June 20	Foreign Currency Transaction Loss	600	
		Accounts Payable (¥)		600
		Revalue foreign currency payable to U.S. dollar	equivalent val	ue:
		\$9,000 = ¥1,200,000 x \$0.0075 June 20 spot rat	e	
		<u>- 8,400</u> = ¥1,200,000 x \$0.0070 May 1 spot rate		
		<u>\$_600</u> = ¥1,200,000 x (\$0.0075 - \$0.0070)		
		Accounts Payable (¥)	9,000	
		Foreign Currency Units (¥)	- ,	9,000
		Settle payable denominated in yen.		
	lukz 1	Accounts Receivable (BRL)	10,000	
	July 1	Sales	10,000	10,000
		Foreign sale denominated in Brazilian reals:		10,000
		10,000 / \$0.20 = BRL50,000		
	August 10	Accounts Receivable (BRL)	1,000	
	August 10	Foreign Currency Transaction Gain	1,000	1,000
		Revalue foreign currency receivable to U.S. dolla	ar equivalent v	
		\$11,000 = BRL50,000 x \$0.22 Aug. 10 spot rate		alaol
		<u>- 10,000</u> = BRL50,000 x \$0.20 July 1 spot rate		
		<u>\$ 1,000</u> = BRL50,000 x (\$0.22 - \$0.20)		
		Foreign Currency Units (BRL)	11,000	
			11,000	
		Accounts Receivable (BRL)		11.000
		Accounts Receivable (BRL) Receive Brazilian reals in settlement of receivab	le.	11,000

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E11-7 Foreign Purchase Transaction

a. Denominated in Swiss francs Rone Imports reports in U.S. dollars

		12/1/X1	12/31/X	1	1/15	5/X2
	Direct Exchange Rate	Transaction Date \$0.70	Balance S Date \$0.60	9	Da	ement ate .68
b.	December 1, 20X1					
0.	Inventory (or Purchases)				10,500	
	Accounts Payable (Si	=r)				10,500
	\$10,500 = SFr 15,000 x	\$0.70				
	December 21, 2014					
	December 31, 20X1				600	
	Accounts Payable (SFr) Foreign Currency Tra	nsaction Gain			600	600
	Revalue foreign currend					000
	equivalent U.S. dollar v					
	\$ 9,900 = SFr 15,000 x		ot rate			
	<u>-10,500</u> = SFr 15,000 x					
	<u>\$ 600</u> = SFr 15,000 x	(\$0.66 - \$0.70)				
	January 15, 20X2					
	Foreign Currency Transa	action Loss			300	
	Accounts Payable (SI				000	300
	Revalue payable to cur		quivalent:			
	\$10,200 = SFr 15,000 x					
	<u>- 9,900</u> = SFr 15,000 x		0X1, value			
	<u>\$ 300</u> = SFr 15,000 x	(\$0.68 - \$0.66)				
	Accounts Payable (SFr)				10,200	
	Foreign Currency Uni	ts (SFr)			10,200	10,200
	\$10,200 = SFr 15,000 x					10,200
	Accounts	Payable (SFr)	40/4/		40.500	_
		(SFr 15,000 x	12/1/2	X1	10,500	
	E 12/31/X1 600	\$0.70)				
AJL	_ 12/31/X1 000	(SFr 15,000 x \$0.66)	Bal	12/31/X1	9,900	_
				I/15/X2	300	
		(SFr 15,000 x		1/15/ X2	10,200	_
		\$0.68)	Dai	., , ,	.0,200	
1/1	5/X2 Settlement 10,200					
			Bal	1/16/X2	-0-	-

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E11-8 Adjusting Entries for Foreign Currency Balances

a.	De	cember 31, 20X6		
		Accounts Receivable (E£)	10,000	
		Foreign Currency Transaction Gain		10,000
		Adjust receivable denominated in Egyptian pounds to curre	ent U.S. dollar	
		equivalent and recognize exchange gain:		
		\$83,600 = E£475,000 x \$0.176 Dec. 31 spot rate		
		<u>- 73,600</u> = Preadjusted Dec. 31, 20X6, value		
		\$10,000		
		Accounts Payable (¥)	5,200	
		Foreign Currency Transaction Gain		5,200
		Adjust payable denominated in foreign currency to current	U.S. dollar eq	uivalent
		and recognize exchange gain:	•	
		\$175,300 = Preadjusted Dec. 31, 20X6, value		
		- 170,100 = ¥21,000,000 x \$0.0081, Dec. 31 spot rate		
		\$ 5,200		
b.		Accounts Receivable (E£)	1,900	
		Foreign Currency Transaction Gain		1,900
		Adjust receivable denominated in Egyptian Pounds to equi	valent U.S. do	ollar
		value on settlement date:		
		\$85,500 = E£475,000 x \$0.180 20X7 collection date value		
		<u>- 83,600</u> = E£475,000 x \$0.176 Dec. 31, 20X6, spot rate		
		<u>\$ 1,900</u> = E£475,000 x (\$0.180 - \$0.176)		
		Cash	164,000	
		Foreign Currency Units (E£)	85,500	
		Accounts Receivable (E£)		85,500
		Accounts Receivable (\$)		164,000
		Collect all accounts receivable.		
C.		Accounts Payable (¥)	6,300	
		Foreign Currency Transaction Gain		6,300
		Adjust payable to equivalent U.S. dollar value on settlemer		
		\$163,800 = ¥21,000,000 x \$0.0078 20X7 payment date val		
		- <u>170,100</u> = ¥21,000,000 x \$0.0081 Dec. 31, 20X6, spot rat	te	
		<u>\$ 6,300</u> = ¥21,000,000 x (\$0.0078 - \$0.0081)		
				1
		Accounts Payable (\$)	86,000	
		Accounts Payable (¥)	163,800	
		Foreign Currency Units (¥)		163,800
		Cash		86,000

Payment of all accounts payable.

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E11-8 (continued)

d.	Transaction gain on E£: December 31, 20X6 December 31, 20X7 Overall	\$10,000 <u>1,900</u> <u>\$11,900</u>	gain gain gain
e.	Transaction gain on ¥: December 31, 20X6 December 31, 20X7 Overall	\$ 5,200 <u>6,300</u> <u>\$11,500</u>	gain gain gain
f.	Overall foreign currency transactions gain: Gain on E£ transaction Gain on ¥ transaction	\$11,900 <u>11,500</u> <u>\$23,400</u>	

Chocolate De-Lites could have hedged its exposed position. The exposed positions are only those denominated in foreign currency units. The accounts receivable denominated in E£ could be hedged by selling E£ in the forward market, thereby locking in the value of the E£. The accounts payable denominated in ¥ could be hedged by buying ¥ in the forward market, thereby locking in the value of the ¥.

3/	10	6/8 I	
Tron	agetian Data	Sottlamont Data	
	saction Date count payable in C\$	Settlement Date - Receive C\$ from	
	in 90-day FEC to receive C\$	FEC completion	
Ole		- Settle payable in C\$	
larch '	10		
	Inventory (or Purchases)	17,100	
	Accounts Payable (C\$)		17,10
	Foreign purchase of engines: \$17,100 = C\$3	30,000 x \$0.57	
	Foreign Currency Receivable from Exchange	Broker (C\$) 17,400	
	Dollars Payable to Exchange Broker (\$)		17,40
	Signed 90-day forward exchange contract to	receive C\$:	
	\$17,400 = C\$30,000 x \$0.58 forward rate		
une 8			
	Foreign Currency Receivable from Broker (C\$	600	
	Foreign Currency Transaction Gain	,, 000	60
	Revalue foreign currency receivable to curre	nt equivalent U.S. dollar	
	$18,000 = C$ $30,000 \times 0.60$ June 8 spot rat		raider
	- 17,400 = C\$30,000 x \$0.58 Mar. 10 forward		
	<u>\$ 600</u> = C\$30,000 x (\$0.60 - \$0.58)		
	$\frac{\phi}{\phi} = 000$ = C430,000 X (ϕ 0.00 - ϕ 0.00)		
		000	
	Foreign Currency Transaction Loss	900	
	Foreign Currency Transaction Loss Accounts Payable (C\$)		
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable to		
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57)	o current U.S. dollar va	
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$)		ue:
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash	to current U.S. dollar va	ue:
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$)	to current U.S. dollar va	ue:
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash	to current U.S. dollar va	ue:
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw	o current U.S. dollar va 17,400 ard contract.	ue:
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable to \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw Foreign Currency Units (C\$) Foreign Currency Receivable from Exchange Broker (C\$)	to current U.S. dollar va 17,400 ard contract. 18,000	ue: 17,40
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable to \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw Foreign Currency Units (C\$) Foreign Currency Receivable from Exchange Broker (C\$) Receive Canadian dollars from exchange broker	to current U.S. dollar va 17,400 ard contract. 18,000	ue: 17,40
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable to \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw Foreign Currency Units (C\$) Foreign Currency Receivable from Exchange Broker (C\$)	to current U.S. dollar va 17,400 ard contract. 18,000	ue: 17,40
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable t \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw Foreign Currency Units (C\$) Foreign Currency Receivable from Exchange Broker (C\$) Receive Canadian dollars from exchange brok \$18,000 = C\$30,000 x \$0.60 spot rate	to current U.S. dollar va 17,400 ard contract. 18,000 oker:	ue: 17,40
	Foreign Currency Transaction Loss Accounts Payable (C\$) Revalue foreign currency accounts payable to \$900 = C\$30,000 x (\$0.60 - \$0.57) Dollars Payable to Exchange Broker (\$) Cash Pay U.S. dollars to exchange broker for forw Foreign Currency Units (C\$) Foreign Currency Receivable from Exchange Broker (C\$) Receive Canadian dollars from exchange broker	to current U.S. dollar va 17,400 ard contract. 18,000	90 ue: 17,40 18,00

E11-9 Purchase with Forward Exchange Contract

E11-10 Purchase with Forward Exchange Contract and Intervening Fiscal Year-End

12/16	12/31	2/14
Transaction Date — Payable in SFr — Sign FEC to receive SFr	Balance Sheet date	Settlement Date — Receive SFr from FEC — Settle payable in SFr
Forward rate: SFr 1 = \$0.67	SFr1 = \$0.695	
Spot rate: SFr 1 = \$0.68	SFr 1 = \$0.70	SFr 1 = \$0.69

PART I: Forward contract not a designated hedge.

a.	December 16, 20X7		
	Equipment	95,200	
	Accounts Payable (SFr)		95,200
	Purchased equipment with payable denominated in SFr:		
	\$95,200 = SFr 140,000 x \$0.68 spot rate		
	Foreign Currency Receivable from Broker (SFr)	93,800	
	Dollars Payable to Exchange Broker (\$)		93,800
	Signed 60-day forward exchange contract:		
	\$93,800 = SFr 140,000 x \$0.67 forward rate		
	December 31, 20X7		
	Foreign Currency Transaction Loss	2,800	
	Accounts Payable (SFr)		2,800
	Revalue accounts payable to current U.S. dollar equivalent:		
	\$98,000 = SFr 140,000 x \$0.70 Dec. 31 spot rate		
	<u>- 95,200</u> = SFr 140,000 x \$0.68 Dec. 16 spot rate		
	<u>\$_2,800</u> = SFr 140,000 x (\$0.70 - \$0.68)		
	Foreign Currency Receivable from Exchange Broker (SFr)	3,500	
	Foreign Currency Transaction Gain		3,500
	Revalue foreign currency receivable:		
	\$97,300 = SFr 140,000 x \$0.695 Dec. 31 forward rate		
	<u>- 93,800</u> = SFr 140,000 x \$0.67 Dec. 16 forward rate		
	<u>\$_3,500</u> = SFr 140,000 x (\$0.695 - \$0.67)		

E11-10 (continued)

b.

c.

February 14, 20X8		
Foreign Currency Transaction Loss	700	
Foreign Currency Receivable from Exchange Broker (SFr)		700
Revalue foreign currency receivable to current equivalent U.S.	dollar value	:
\$96,600 = SFr 140,000 x \$0.69 Feb. 14, 20X8, spot rate		
<u>- 97,300</u> = SFr 140,000 x \$0.695 Dec. 31, 20X7, forward rate		
<u>\$ 700</u> = SFr 140,000 x (\$0.69 - \$0.695)		
Accounts Payable (SFr)	1,400	
Foreign Currency Transaction Gain	1,100	1,400
Revalue foreign currency accounts payable to current U.S. dol	lar value:	.,
\$96,600 = SFr 140,000 x \$0.69 Feb. 14, 20X8, spot rate		
<u>- 98,000</u> = SFr 140,000 x \$0.70 Dec. 31, 20X7, spot rate		
<u>\$ 1,400</u> = SFr 140,000 x (\$0.69 - \$0.70)		
Dollars Payable to Exchange Broker (\$)	93,800	
Cash		93,800
Pay U.S. dollars to exchange broker for forward contract.		
Foreign Currency Units (SFr)	96,600	
Foreign Currency Receivable from Exchange Broker (SFr)		96,600
Receive francs from exchange broker:		
\$96,600 = SFr 140,000 x \$0.69 spot rate		
Accounts Payable (SFr)	96,600	
Foreign Currency Units (SFr)	30,000	96,600
Settle foreign currency payable.		50,000
Cettle foreign currency payable.		
Foreign Currency Exchange Loss (with Swiss Co.)	\$(2,800))
Foreign Currency Exchange Gain (with Broker)	3,50	,
Net effect on income	<u> </u>	
	Ψ 10	<u>o</u>
Overall effect of transactions:		
20X7 Net Foreign Currency Gain	\$ 70	-
20X8 Foreign Currency Loss on receivable	(700	
20X8 Foreign Currency Transaction Gain on payable	1,40	_
Overall effect	<u>\$ 1,40</u>	<u>U</u>

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E11-10 (continued)

PART II: Forward contract designated as a cash flow hedge.

December 16, 20X7		
Equipment	95,200	
Accounts Payable (SFr)	,	95,200
Purchased equipment with payable denominated in SFr:		
\$95,200 = SFr 140,000 x \$0.68 spot rate		
Foreign Currency Receivable from Broker (SFr)	93,800	
Dollars Payable to Exchange Broker (\$)		93,800
Signed 60-day forward exchange contract:		
\$93,800 = SFr 140,000 x \$0.67 forward rate		
December 31, 20X7		
Foreign Currency Transaction Loss	2,800	
Accounts Payable (SFr)	2,000	2,800
Revalue accounts payable to current U.S. dollar equivalent:		2,000
\$98,000 = SFr 140,000 x \$0.70 Dec. 31 spot rate		
$-95,200 = SFr 140,000 \times 0.68 Dec. 16 spot rate		
$\frac{100,200}{2,800}$ = SFr 140,000 x (\$0.70 - \$0.68)		
<u>+</u>		
Foreign Currency Receivable from Exchange Broker (SFr)	3,500	
Other Comprehensive Income		3,500
Revalue foreign currency receivable with effective portion of		
value of cash flow hedging derivative recorded in other comp	rehensive ir	ncome:
\$97,300 = SFr 140,000 x \$0.695 Dec. 31 forward rate		
<u>- 93,800</u> = SFr 140,000 x \$0.67 Dec. 16 forward rate		
<u>\$_3,500</u> = SFr 140,000 x (\$0.695 - \$0.67)		
Other Comprehensive Income	2,800	
Foreign Currency Transaction Gain	2,000	2,800
In accordance with ASC 815 , an amount is reclassified from	other	2,000
comprehensive income to fully offset the foreign currency trar		s on the
revaluation of the foreign currency denominated account paya		
February 14, 20X8		
Other Comprehensive Income	700	
Foreign Currency Receivable from Exchange Broker (SFr)		700
Revalue foreign currency receivable to current equivalent U.		lue and
record effective portion of change into other comprehensive in		
accordance with ASC 815. Forward contract has now expired	l.	
\$96,600 = SFr 140,000 x \$0.69 Feb. 14, 20X8, spot rate		
<u>- 97,300</u> = SFr 140,000 x \$0.695 Dec. 31, 20X7, forward rate	Э	
<u>\$ 700</u> = SFr 140,000 x (\$0.69 - \$0.695)		

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E11-10 (continued)

Accounts Payable (SFr)	1,400	
Foreign Currency Transaction Gain	.,	1,400
Revalue foreign currency accounts payable to current U.S	5. dollar val	
using the spot rate in accordance with ASC 830:		
\$96,600 = SFr 140,000 x \$0.69 Feb. 14, 20X8, spot rate		
<u>- 98,000</u> = SFr 140,000 x \$0.70 Dec. 31, 20X7, spot rate		
<u>\$_1,400</u> = SFr 140,000 x (\$0.69 - \$0.70)		
Family Owned and Transportion Land	4 400	
Foreign Currency Transaction Loss	1,400	4 400
Other Comprehensive Income		1,400
In accordance with ASC 815 , an amount is reclassified fro		acin on
comprehensive income to fully offset the foreign currency to the revaluation of the foreign currency denominated account		
	ii payable.	
Dollars Payable to Exchange Broker (\$)	93,800	
Cash	,	93,800
Pay U.S. dollars to exchange broker for forward contract.		
Foreign Currency Units (SFr)	96,600	
Foreign Currency Receivable from	,	
Exchange Broker (SFr)		96,600
Receive francs from exchange broker:		
\$96,600 = SFr 140,000 x \$0.69 spot rate		
Accounts Payable (SFr)	96,600	
Foreign Currency Units (SFr)	,•	96,600
Settle foreign currency payable.		, -

Note that there is a remaining credit balance of \$1,400 in Other Comprehensive Income. This represents the initial discount on the forward contract and will be reclassified into earnings in alignment with the depreciation on the equipment that was acquired.

E11-11 Foreign Currency Transactions [AICPA Adapted]

1. **d**

			20X1				20X2
\$0.4895	Х	€30,000	\$14,685	\$0.4845	Х	€30,000	\$14,535
\$0.4845	Х	€30,000	14,535	\$0.4945	Х	€30,000	14,835
		Gain	<u>\$ 150</u>			Loss	<u>\$ (300</u>)

2.	b	January 15		
		Foreign Currency Units (LCU)	300,000	
		Exchange Loss	15,000	
		Accounts Receivable (LCU)		315,000
		Collect foreign currency receivable and recognize	e foreign currend	_y
		transaction loss for changes in exchange rates:	-	-
		\$300,000 = (LCU 900,000 / LCU 3) Jan. 15 value	e	
		- 315,000 = Dec. 31 U.S. dollar equivalent		
		<u>\$ 15,000</u> Foreign currency transaction loss		

3.	d	<u>\$120,000</u>	=	July 1, 20X1, U.S. dollar equivalent value
		\$140,000	=	December 31, 20X1, U.S. dollar equivalent value
				(LCU 840,000 / \$140,000) = LCU 6 / \$1
		-105,000	=	July 1, 20X2, U.S. dollar equivalent value
				(LCU 840,000 / 8) = \$105,000
		<u>\$(35,000</u>)		Foreign currency transaction loss

4. **c** C\$1 / \$0.90 (C\$1.11 = \$1.00)

5.	d	\$280,000	=	July 1, 20X5, U.S. dollar equivalent value
		<u>-240,000</u>	=	December 31, 20X4, U.S. dollar equivalent value
		<u>\$ 40,000</u>		Foreign currency transaction loss

6. **d** Regardless of whether it is a gain or a loss, the effect of the change will always be included as a component of income.

(a) *Incorrect.* When the exchange rate in the transaction changes, the effect flows through the income, not in stockholders' equity.
(b) *Incorrect.* When the exchange rate in the transaction changes, the effect flows through the income, not in stockholders' equity.
(c) *Incorrect.* The effect is recorded as a component of income for both gains and losses.

- 7. **d** The resulting loss is required to be included as a component of income, and will be recorded for the year in which it occurred.
 - (a) Incorrect. The loss must be included in 20X6.
 - (b) Incorrect. It must be recorded as a component of income during 20X6.

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(c) *Incorrect.* A deferred charge would not result. Instead, the loss is recorded during 20X6 as a component of income.

E11-12 Sale in Foreign Currency

a.		October 1	December 1		April 1
		ا Transaction Date	ا Balance Sheet Date		l ement Date
	Direct exchange rates				
	P1=	\$0.0068	\$0.0078	\$0).0076
		Weak	ollar kened creased)	Dollar Strengthened (rate decreased)	
b.	October 1, 20)X6			
	Accounts	s Receivable (P)		34,000	04.000
		Revenue	vable denominated in p	pesetas(P)·	34,000
		$D = P 5,000,000 \times $			
	December 31	, 20X6			
	Accounts	Receivable (P)		5,000	
		gn Currency Transa e foreign currency r	action Gain receivable to current U	.S. dollar equivalent	5,000 t:
	\$39,000	D = P 5,000,000 x \$	0.0078 Dec. 31 spot ra	ate	
		$\underline{D} = P 5,000,000 \times \$$ $\underline{D} = P 5,000,000 \times (\$$	0.0068 Oct. 1 spot rate \$0.0078 - \$0.0068)	9	
	April 1, 20X7	_ , , , , ,	· · · · · · · · · · · · · · · · · · ·		
		Currency Transaction	on Loss	1,000	
	Accou	unts Receivable (P)			1,000
			e to current U.S. dollar 0.0076 April 1 spot rat		
	- 39,000	<u>0</u> = P 5,000,000 x \$	0.0078 Dec. 31 spot ra		
	<u>\$ 1,000</u>	$\underline{O} = P5,000,000 \times (3)$	\$0.0076 - \$0.0078)		
		Currency Units (P)		38,000	
		unts Receivable (P) foreign receivable:			38,000
		D = P 5,000,000 x	0.0076		
C.	October	urrency transaction 1 to December 31 1 to April 1			
	Proof: \$4	1,000 = P5,000,000) x (\$0.0076 - \$0.0068))	

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April 20	June 19
Transaction Date — Receivable in kronor — Sign FEC to deliver kronor	Settlement Date — Receive kronor from receivable — Complete FEC with delivery of kronor
Forward rate: SKr 1 = 0.167 Spot rate: SKr 1 = 0.170	SKr 1 = \$0.165
a. Apr <u>il 20</u>	
Accounts Receivable (SKr) Sales Revenue	34,000 34,000
\$34,000 = SKr 200,000 x \$0.17 spot rate	
Dollars Receivable from Exchange Broker	33,400
Foreign Currency Payable to Exchange	
Sign 60-day forward exchange contract to \$33,400 = SKr 200,000 x \$0.167 forward	
June 19	
Foreign Currency Transaction Loss	1,000
Accounts Receivable (SKr) Revalue foreign currency receivable to cu	1,000
\$33,000 = SKr 200,000 x \$0.165 June 19	
$-34,000 = SKr 200,000 \times $0.170 April 20$	
<u>\$ 1,000</u> = SKr 200,000 x (\$0.165 - \$0.17	
Foreign Currency Payable to Exchange Br Foreign Currency Transaction Gain	roker (SKr) 400 400
Revalue foreign currency payable to curr	
\$33,000 = SKr 200,000 x \$0.165 June 19 - 33,400 = SKr 200,000 x \$0.167 April 20	
$\frac{-33,400}{\$ 400} = \text{SKr} 200,000 \times \0.107 April 20	Totward fale
Foreign Currency Units (SKr)	33,000
Accounts Receivable (SKr)	33,000
Receive kronor from foreign receivable: \$33,000 = SKr 200,000 x \$0.165 spot rate	e
Foreign Currency Payable to Exchange Broker (SKr) Foreign Currency Units (SKr)	33,000 33,000
Pay foreign currency units to exchange b	
Cash	33,400
	33.400
Dollars Receivable from Exchange Bro	

E11-13 Sale with Forward Exchange Contract

E11-13 (continued)

b. Effects on net income:

Use of forward contract: 1) Dollar strengthened from April 20 to June 19 Exchange loss of \$1,000 on foreign currency receivable Exchange gain of \$400 for foreign currency payable to exchange broker; therefore, net effect loss	\$(600)
If Alman had not acquired the forward contract: 1) Dollar strengthened resulting in exchange loss of \$1,000 on foreign currency receivable from customer Difference	<u>(1,000)</u> <u>\$ (400</u>)

Hedging with the forward exchange contract resulted in \$400 less charged to net income; thus, net income was higher as a result of acquiring the forward contract.

E11-14 Foreign Currency Transactions [AICPA Adapted]

1.c \$4,000

Accounts Payable (€)					
(200,000 x \$0.4875) 12/10/X3 97,500					
AJE	4,000				
		(200,000 x \$0.4675) 12/31/X3	93,500		

Accounts Payable (€)	4,000]
Foreign Exchange Gain	4,000	

2. d \$27,000 = \$6,000 + \$20,000 + \$1,000

Account	s Payable (FCU)		
		1/20/X2	90,000
		AJE	6,000
		3/20/X2	96,000
Foreign Exchange Loss		6,000	
Accounts Payable (FCU)			6,000

E11-14 (continued)

Notes Payable (FCU)		
	7/01/X2	500,000
	AJE	20,000
	12/31/X2	520,000
Foreign Exchange Loss	20,000	
Notes Payable (FCU)		20,000

Interest Payable (FCU)			
(\$500,000 x .10 x 1/2 year)			
	AJE	1,000	
	12/31X2	26,000	

Foreign Exchange Loss	1,000
Interest Payable (FCU)	1,000

3.c \$5,000

 Accounts Receivable (FCU)					
10/15/X1	100,000				
AJE	5,000				
 11/16/X1	<u>105,000</u>	Settlement	11/16/X1	105,000	

Accounts Receivable (FCU)	5,000
Foreign Exchange Gain	5,000

Note: The receivable is recorded on October 15, 20X1, when the goods were shipped, <u>not</u> on September 1, 20X1, when the order was received.

4.b \$1,000

		Account	s Payable (FCU)		
	X3 AJE	500	(10,000 x \$0.60)	4/08/X3	6,000
			(10,000 x \$0.55)	12/31/X3	5,500
	X4 AJE	1,000	(10,000 x	3/01/X4	4 500
			(10,000 x \$0.45)	3/01/74	4,500
	Settlement	4,500	. ,		
				Bal.	-0-
X4 AJE	Accounts Pa			1,000	1 000
	Foreign	Exchange	Gain		1,000

¹¹⁻²⁷

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E11-14 (continued)

- 5. b A gain should be reported because the peso weakened from December 15 (the transaction date) to the balance sheet date (December 31, 20X5). Stevens would not record the purchase until title transferred on December 15, 20X5. The accounts payable recorded on December 15 are denominated in pesos when the indirect exchange rate was \$1 = 20 pesos. On December 31, 20X5, the indirect exchange rate was \$1 = 21 pesos, meaning that the dollar strengthened and the peso weakened. Therefore, a foreign currency transaction gain would be reported for 20X5. This gain would be included in net income before extraordinary items.
- 6. b Foreign currency transaction gains and losses are reported on the income statements of U.S. companies when receivables and payables are denominated in foreign currencies. Since Louis did not report any foreign exchange gains or losses, the payable to the German company was denominated in U.S. dollars, not European euros.
- 7. b \$9,000 = 300,000 pounds x (\$1.65 \$1.62). The foreign currency transaction gain is computed using spot rates on the transaction date (November 30, 20X5) and the balance sheet date (December 31, 20X5). The forward exchange rates are not used because the transaction was not hedged.

E11-15 Sale with Forward Contract and Fiscal Year-End

	May	/ 14 	June 30	July 13		
	— Sale	ction Date with receivable enominated in guilder er into 60-day FEC	Balance Sheet Date s	Settlement Date — Collect receivab in guilders — Complete FEC v		
		o deliver guilders		delivery of gu	lders	
		e: = \$0.541	G 1 = \$0.530			
Spor	t rate: G1 =	= \$0.530	G 1 = \$0.534	G 1 = \$0.525		
a.						
1.	May 14	Accounts Receivable	(G)	26,50		
		Sales Revenue Foreign currency sal	e: \$26,500 = G 50,00	00 x \$0.530	26,500	
2.	May 14	4 Dollars Receivable fro	m Evebando Brokor	27,05	n	
			Payable to Exchange	Broker (G)	27,050	
\$27,050 = G 50,000 x \$0.541 forward rate						
3.	June 3	Accounts Receivable		20		
Foreign Currency Transaction Gain Revalue foreign currency receivable to end-of-period U.S. dollar equivale					200 quivalent	
		using spot rate accord \$26,700 = G 50,000 <u>- 26,500</u> = G 50,000	ling to ASC 830 : x \$0.534 June 30 sp	ot rate		
		Foreign Currency Pay Foreign Currency		oker (G) 550	0 550	
	;		ency payable to year	-end fair value using forv		
		\$26,500 = G 50,000 <u>- 27,050</u> = G 50,000 \$ 550 = G 50,000	x \$0.541 May 14 for			
		<u>\$ 550</u> = G 50,000	Λ ΨΟ.ΟΤΤ			

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E11-15 (continued)

4.	July 13		
	Foreign Currency Transaction Loss Accounts Receivable (G)	450	450
	Revalue foreign currency receivable to U.S. dollar eq settlement date:	uivalent on	
	\$26,250 = G 50,000 x \$0.525 July 13 spot rate		
	<u>- 26,700</u> = G 50,000 x \$0.534 June 30 spot rate <u>\$ 450</u> = G 50,000 x (\$0.525 - \$0.534)		
	Foreign Currency Units (G) Accounts Receivable (G)	26,250	26,250
	Collect foreign currency receivable.		
5.	July <u>13</u>		
	Foreign Currency Payable to Exchange Broker (G) Foreign Currency Transaction Gain	250	250
	Revalue foreign currency payable to fair value at sett		
	spot rate because the term of the contract has expired \$26,250 = G 50,000 x \$0.525 July 13 spot rate		
	<u>- 26,500</u> = G 50,000 x \$0.530 June 30 forward rate <u>\$ 250</u> = G 50,000 x \$0.005		
		00.050	
	Foreign Currency Payable to Exchange Broker (G) Foreign Currency Units (G)	26,250	26,250
	Pay guilders to exchange broker.		
	Cash	27,050	07.050
	Dollars Receivable from Exchange Broker Receive dollars from exchange broker for guilders de	livered:	27,050
	\$27,050 = G 50,000 x \$0.541 rate established in forw on May 14.		signed
b.	June 30	• • • •	
	FCT gain on account from Netherlands Company FCT gain on account to Broker	\$200 550	
	Net increase in net income for FYE June 30	<u>\$750</u>	
c.	July 13		
	FCT loss on account receivable from Netherlands Company	\$(450)	
	FCT gain on account to Broker Net decrease in net income	250	
	for the period from 7-1 to 7-13	\$(200)	
	Net increase in net income for the FYE 6-30 Overall gain on transaction	<u>750</u> \$ 550	
d.	May 14 — June 30 gain	\$ 200	
u.	July 1 — July 13 loss	(450)	
	Overall loss if forward contract not used	<u>\$(250</u>)	

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11/1/X6	12/31/X6	1/30/X7	3/1/X7
 Commitment to deliver pounds in 120 days Sign FEC to hedge foreign currency commitment 	Balance Sheet Date	Transaction Date — Receipt of goods and recognition of foreign currency payable	Settlement Date — Receive British pounds from settlement of FEC — Pay pounds to settle foreign currency accounts payable
Forward rate: £1 = \$1.59 Spot rate:	£1 = \$1.62	£1 = \$1.60	
£1 = \$1.61	£1 = \$1.65	£1 = \$1.59	£1 = \$1.585

E11-16A Hedge of a Purchase (Commitment without and with Time Value of Money Consideration)

- a. No net exposure between November 1 and March 1. Smith Imports, Inc., has hedged its foreign currency purchase commitment with a forward contract to receive an equal number of foreign currency units. Note that the notional amount of the forward exchange contract, the unrecognized firm commitment, and the eventual foreign currency-denominated account payable are each for £30,000. The impact on earnings from the forward contract will be a total of \$600, which is the amount of the discount on the forward contract ((£30,000 x (\$1.61 spot rate \$1.59 forward rate)). [The subsequent analysis will show that \$300 of the \$600 will adjust the inventory that will impact earnings when the inventory is sold, and the remaining \$300 will be recognized in earnings through the revaluation process.]
- b. November 1, 20X6

Foreign Currency Receivable from Exchange Broker (£)	47,700	
Dollars Payable to Exchange Broker (\$)		47,700
Signed 120-day forward contract to hedge foreign currency commitment:		
\$47,700 = £30,000 x \$1.59 forward rate		

December 31, 20X6

900	
	900
:	
	900

Foreign Currency Transaction Loss	900	
Firm Commitment		900
Record the loss on the firm commitment:		
\$900 = £30,000 x (\$1.62 - \$1.59)		

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E11-16A (continued)

Foreign Currency Transaction Loss	600	
Foreign Currency Receivable from Exchange Broker (£)		600
Revalue foreign currency receivable to current U.S. dollar e	auivalent:	
\$48,000 = £30,000 x \$1.60 Jan. 30 forward rate		
- 48,600 = £30,000 x \$1.62 Dec. 31 forward rate		
$\frac{600}{5} = 1000$ = 1.60 × (\$1.60 - \$1.62)		
Firm Commitment	600	
Foreign Currency Transaction Gain		600
Record the gain on the financial instrument aspect of the firm $600 = £30,000 \times (1.60 - 1.62)$	n commitm	ent:
Inventory (or Purchases)	47,400	
Firm Commitment	300	
Accounts Payable (£)		47,700
Record foreign currency account payable at spot rate and revalue of the firm commitment as adjustment of purchase price \$47,700 = £30,000 x \$1.59 Jan. 30 spot rate		nange in
arch 1, 20X7		
Foreign Currency Transaction Loss	450	
Foreign Currency Receivable from Exchange Broker (£)		45
Revalue foreign currency receivable to fair value:		
\$47,550 = £30,000 x \$1.585 Mar. 1 spot rate		
<u>- 48,000</u> = £30,000 x \$1.60 Jan. 30 forward rate		
<u>\$ 450</u> = £30,000 x (\$1.585 - \$1.60)		
	150	
Accounts Payable (£)	150	4 -
Foreign Currency Transaction Gain	150	15
	150	15
Foreign Currency Transaction Gain Revalue foreign payable to equivalent U.S. dollar value:	47,700	15
Foreign Currency Transaction Gain Revalue foreign payable to equivalent U.S. dollar value: \$150 = £30,000 x (\$1.585 - \$1.59)		
Foreign Currency Transaction Gain Revalue foreign payable to equivalent U.S. dollar value: \$150 = £30,000 x (\$1.585 - \$1.59) Dollars Payable to Exchange Broker (\$) Cash	47,700	47,70
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$)CashDeliver U.S. dollars to exchange broker in accordance with f	47,700	47,70
Foreign Currency Transaction Gain Revalue foreign payable to equivalent U.S. dollar value: \$150 = £30,000 x (\$1.585 - \$1.59) Dollars Payable to Exchange Broker (\$) Cash	47,700	47,70
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$)CashDeliver U.S. dollars to exchange broker in accordance with fcontract:	47,700	47,70
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$)CashDeliver U.S. dollars to exchange broker in accordance with fcontract:\$47,700 = £30,000 x \$1.59 forward rate	47,700 orward exc	47,70
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$)CashDeliver U.S. dollars to exchange broker in accordance with fcontract:\$47,700 = £30,000 x \$1.59 forward rateForeign Currency Units (£)	47,700 orward exc	47,70 change
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$)CashDeliver U.S. dollars to exchange broker in accordance with fcontract:\$47,700 = £30,000 x \$1.59 forward rateForeign Currency Units (£)Foreign Currency Receivable from Exchange Broker (£)	47,700 orward exc	47,70 change
Foreign Currency Transaction GainRevalue foreign payable to equivalent U.S. dollar value:\$150 = £30,000 x (\$1.585 - \$1.59)Dollars Payable to Exchange Broker (\$) CashDeliver U.S. dollars to exchange Broker (\$) CashDeliver U.S. dollars to exchange broker in accordance with f contract: \$47,700 = £30,000 x \$1.59 forward rateForeign Currency Units (£) Foreign Currency Receivable from Exchange Broker (£) Receive 30,000 pounds from exchange broker:	47,700 orward exc	47,70 change

E11-16A (continued)

c. Considering the time value of money in valuing the forward contract.

November 1, 20X6

Foreign Currency Receivable from Exchange Broker (£)	47,700		
Dollars Payable to Exchange Broker (\$)		47,700	
Signed 120-day forward contract to hedge foreign currency commitment:			

 $47,700 = £30,000 \times 1.59$ forward rate

December 31, 20X6

Foreign Currency Receivable from Exchange Broker (£) 882	
Foreign Currency Transaction Gain	882
Revalue foreign currency receivable to discounted end-of-period fair value:	
\$48,600 = £30,000 x \$1.62 Dec. 31 forward rate	
<u>- 47,700</u> = £30,000 x \$1.59 Nov. 1 forward rate	
<u>\$ 900</u> = £30,000 × (\$1.62 - \$1.59)	
<u>\$ 882</u> = NPV (.12 x 2/12, 900)	

Foreign Currency Transaction Loss	882	
Firm Commitment		882
Record the loss on the financial instrument aspect of the firm	commitment:	
\$882 = NPV (.12 x 2/12, 900)		

January 30, 20X7

Foreign Currency Transaction Loss	585
Foreign Currency Receivable from Exchange Broker (£)	585
Revalue foreign currency receivable to current U.S. dollar equiva	alent:
\$48,000 = £30,000 x \$1.60 Jan. 30 forward rate	
<u>- 47,700</u> = £30,000 x \$1.59 Nov. 1 forward rate	
<u>\$ 300</u> = Cumulative Gain	
<u>\$ 300</u> = Cumulative Gain \$ 297 = NPV (.12 x 1/12, 300)	
 882 = gain recognized previously 	
<u>\$ (585)</u> = net change in fair value	
•	
Firm Commitment	585

Foreign Currency Transaction Gain	585	
Record the gain on the financial instrument aspect of the firm commitment.		

47,403			
297			
47,700			
Record foreign currency account payable at spot rate and recognize change in			
value of the firm commitment as adjustment of purchase price:			

\$47,700 = £30,000 x \$1.59 Jan. 30 spot rate

E11-16A (continued)

.

March 1, 20X7	
Foreign Currency Transaction Loss	447
Foreign Currency Receivable from Exchange Broker	(£) 447
Revalue foreign currency receivable to fair value:	
\$47,550 = £30,000 x \$1.585 Mar. 1, 20X7, spot rate	
<u>- 47,700</u> = £30,000 x \$1.59 Nov. 1, 20X6, forward rate	
\$ 150 = cumulative, undiscounted loss over term of contract	
 <u>297</u> = previously recognized net gain 	
$\frac{447}{5}$ = loss for period	
Accounts Payable (£)	150
Foreign Currency Transaction Gain	150
Revalue foreign currency payable to equivalent U.S. de \$150 = £30,000 x (\$1.585 - \$1.59)	ollar value:
Dollars Payable to Exchange Broker (\$)	47,700
Cash	47,700
Deliver U.S. dollars to exchange broker in accordance	with forward exchange
contract:	
contract: $47,700 = £30,000 \times 1.59$ forward rate	
	47,550
\$47,700 = £30,000 x \$1.59 forward rate Foreign Currency Units (£)	
\$47,700 = £30,000 x \$1.59 forward rate Foreign Currency Units (£) Foreign Currency Receivable from Exchange Broker	
\$47,700 = £30,000 x \$1.59 forward rate Foreign Currency Units (£)	
 \$47,700 = £30,000 x \$1.59 forward rate Foreign Currency Units (£) Foreign Currency Receivable from Exchange Broker Receive 30,000 pounds from exchange broker: 	

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E11-17 Gain or Loss on Speculative Forward Exchange Contract

	12/1/X1	12/31/X1	3/1/X2		
	l Sign speculative forward exchange contract	Balance Sheet Date	l Settlement of speculative forward exchange contract		
Forward rate: €1 = \$0.58 Spot rate: €1 = \$0.60		€1 = \$0.56			
		€ 1 = \$0.59	€1 = \$0.57		
a.	a. Effects of speculation on 20X1 income:				
	December 31, 20X1 December 1, 20X1 Speculation gain in 20	€120,000 x \$0.56 = €120,000 x \$0.58 = X1	\$ 67,200 <u>- 69,600</u> <u>\$ (2,400</u>)		
b.	b. Effects of speculation on 20X2 income:				
	March 1, 20X2 December 31, 20X1 Speculation loss in 20)	€120,000 x \$0.57 = €120,000 x \$0.56 =	\$ 68,400 <u>- 67,200</u> <u>\$ 1,200</u>		
	Foreign Currency Payable (€)				
1	2/31/X1 AJE 2,400	(€120,000 x \$0.58 forward rate for 3/1/X2) 12/1/X7 (€120,000 x \$0.56	1 69,600		
		forward rate for 3/1/X2) 12/31/>	(1 67,200 (2 AJE 1,200		

(€120,000 x \$0.57 spot rate on 3/1/X2)	3/1/X2	<u>68,400</u>	

Decem	per 31, 20X1		
AJE	Foreign Currency Payable (€)	2,400	
	Foreign Exchange Gain		2,400
March 1			
AJE	Foreign Exchange Loss	1,200	
	Foreign Currency Payable (€)		1,200

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E11-18 Speculation in a Foreign Currency

10/1/X1 I		12/3	1/X1	3/31/X	2	
exch			e Sheet Date	Settlemer — Settle spec cont	culative	
Forward: ¥1 = Spot: ¥1 =	\$0.0075 \$0.0070	¥1 = \$0 ¥1 = \$0		¥1 = \$0.00)72	
a. October	1, 20X1					
Fo	reign Currency Rece Dollars Payable to E	Exchang	e Broker (\$)		375,000	375,000
	ign 180-day forward 375,000 = ¥50,000,0					
Decembe	er 31, 20X1					
	reign Currency Rece Foreign Currency T	ransactio	on Gain		5,000	5,000
	evalue speculative f			ent end-of-pe	eriod U.S. d	Iollar
	ue using forward rat 380,000 = ¥50,000,0					
forward rate for Mar. 31, 20X2,						
	settlemen		0075 Oct 1			
	375,000 = ¥50,000,0 forward ra		ar. 31, 20X2,			
	settlement		ar. 01, 20/2,			
<u>\$</u>	<u>5,000</u> = ¥50,000,0	000 x (\$0	0.0076 - \$0.0075)			
March 31	, 20X2					
	reign Currency Tran				20,000	
	Foreign Currency R					20,000
	Revalue speculative forward contract to current date, the end of the contract term, using March 31 spot rate:					ntract
	$360,000 = \pm 50,000,000$					
Ť	spot rate	• • •				
<u>- :</u>	<u>380,000</u> = ¥50,000,0					
<u>\$</u>	forward r 20,000 = ¥50,000,0		<i>l</i> ar. 31, 20X2).0072 - \$0.0076)			
	llara Davabla ta Fua	hongo D	Prokor (¢)		275 000	
Do	llars Payable to Exc Cash	nange B	DIOKEI (\$)		375,000	375,000
D	eliver U.S. dollars to	exchan	ge broker.			2. 0,000

E11-18 (continued)

Foreign Currency Units (¥) Foreign Currency Receivable from Exchange Broker (¥)	360,000	360,000
Receive yen from exchange broker: \$360,000 = ¥50,000,000 x \$0.0072		
Cash	360,000	
Foreign Currency Units (¥)		360,000
Trade yen for dollars, at bank.		

b. Streamline Company experienced a net loss of \$15,000 (\$5,000 gain in 20X1 less a \$20,000 loss in 20X2). This may be checked by determining the difference between the dollars paid to the exchange broker on March 31, 20X2, (\$375,000) and the U.S. dollar equivalent value of the foreign currency received on March 31 (\$360,000).

E11-19 Forward Exchange Transactions [AICPA Adapted]

- 1. a \$400 = 10,000 foreign currency units x (\$0.82 \$0.78). The loss is calculated using only forward rates. On December 31, 20X5, the loss is the difference between the 90-day future rate on November 1 (\$0.78) and the 30-day future rate on December 31 (\$0.82).
- c \$1,000 = 50,000 European euros x (\$0.74 \$0.72). The loss is calculated using only forward rates. On September 30, 20X5, the loss is the difference between the 60-day future rate of \$0.74 on September 1 and the 30-day future rate of \$0.72 on September 30, 20X5.

3. b Manage an exposed position:

Value the forward exchange contract (FEC) at its fair value, measured by changes in the forward exchange rate (FER). Note that the question asks only for the effect on income from the forward contract transaction; thus, any effect on income from the foreign currency denominated account payable is not included in the answer.

FER, 12/12/X5 \$0.90 FER, 12/31/X5 \$0.93

AJE:

Forward Contact Receivable	3,000
Foreign Exchange Gain	3,000
Revalue forward contract:	

\$3,000 = Fr 100,000 x (\$0.93 - \$0.90) change in forward rates

Foreign Exchange Loss	10,000
Account Payable (Fr)	10,000

Revalue foreign currency payable:

\$10,000 = Fr 100,000 x (\$0.98 - \$0.88) change in spot rates

4. b Hedge of a Firm Commitment:

Value FEC based on changes in forward rate.

AJE:

Forward Contract Receivable	3,000	
Foreign Exchange Gain		3,000
Revalue forward contract, using the forward rates.		

Foreign Exchange Loss	3,000	
Firm Commitment		3,000
Recognize loss on firm commitment.		

Again, note that the question asks only about the effect on income from the forward contract, not the underlying firm commitment portion of the transaction.

5. b Speculation:

Value forward exchange contract at fair value based on changes in the forward rate.

AJE:

Forward Contract Receivable	3,000	
Foreign Exchange Gain	3,000)

SOLUTIONS TO PROBLEMS

P11-20 Multiple-Choice Questions on Foreign Currency Transactions

11/	1/X8	12/31/X8 	1/30/X9
Trans	saction Date	Balance Sheet Date	Settlement Date
	rrchase with payable denominated in renmint gn 90-day forward	bi	 Receive renminbi upon settlement of forward exchange contract
	exchange to receive renminbi		 Pay renminbi to settle foreign currency payable
	te: \$0.126	R 1 = \$0.129	
Spot rate: R1 =	\$0.120	R 1 = \$0.124	R 1 = \$0.127
	Signed 90-day forv renminbi: \$12,600 = 100,000 rate	Renminbi) to Exchange Broker (\$	ct to purchase 100,000
2. c – [Revalue foreign cu		
3. b – .	Cash Deliver U.S. dollar exchange contract: \$12,600 = 100,000	· ·	12,600 12,600 n accordance with forward
4. b – .	Cash Deliver U.S. dollar exchange contract: \$12,600 = 100,000	Exchange Broker (\$) s to exchange broker i 0 renminbi x \$0.126, day forward rate	12,600 12,600 n accordance with forward

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5.	a –	January 30, 20X9	January 30	
υ.	a	January $50, 2003$	January JU,	

00.			
	Foreign Currency Transaction Loss	200	
	Foreign Currency Receivable from		
	Exchange Broker (Renminbi)	200	
	Adjust foreign currency receivable to cur		
	\$12,700 = 100,000 renminbi x \$0.127 Ja	n. 30 spot rate	
	- 12,900 = 100,000 renminbi x \$0.129 Dec. 31 forward rate		
	<u>\$ 200</u> = 100,000 renminbi x (\$0.127 - 3	\$0.129)	
	Foreign Currency Units (Renminbi)	12,700	
	Foreign Currency Receivable		
	from Exchange Broker	12,700	
	Receive 100,000 renminbi from exchang	e broker:	

\$12,700 = 100,000 renminbi x \$0.127 spot rate

P11-21 Foreign Sales

1.	June	6
	ounc	v

1.	June 6			
		Accounts Receivable (Dkr) Sales Revenues	21,000	21,000
		Foreign sale and foreign currency receivable: \$21,000 = Dkr120,000 x \$0.175		21,000
	July 3			i
		Accounts Receivable (Dkr) Foreign Currency Transaction Gain	36	36
		Revalue foreign currency receivable to U.S. dollar equ $21,036 = Dkr120,000 \times 0.1753 July 3 spot rate$ $-21,000 = Dkr120,000 \times 0.1750 June 6 spot rate$ $36 = Dkr120,000 \times (0.1753 - 0.1750)$	ivalent value:	
		Foreign Currency Units (Dkr)	21,036	04.000
		Accounts Receivable (Dkr) Collect accounts receivable in Dkr.		21,036
2.	July 22			
		Accounts Receivable (£) Sales Revenue	47,400	47,400
		Foreign sale and foreign currency receivable: \$47,400 = £30,000 x \$1.58		
		Dollars Receivable from Exchange Broker (\$) Foreign Currency Payable to Exchange Broker (£)	48,900	48,900
		Signed 60-day forward contract to sell pounds: \$48,900 = £30,000 x \$1.63 forward rate		
	Septem	ber 20		
	·	Accounts Receivable (£) Foreign Currency Transaction Gain	960	960
		Revalue foreign currency receivable: $$48,360 = £30,000 \times $1.612 \text{ Sept. } 20 \text{ spot rate}$ $-47,400 = £30,000 \times $1.58 \text{ July } 22 \text{ spot rate}$ $$960 = £30,000 \times ($1.612 - $1.58)$		900
		Foreign Currency Payable to Exchange Broker (£) Foreign Currency Transaction Gain	540	540
		Foreign currency mansaction Gain Revalue foreign currency payable: $$48,360 = £30,000 \times $1.612 \text{ Sept. } 20 \text{ spot rate}$ $-48,900 = £30,000 \times $1.630 \text{ July } 22 \text{ forward rate}$ $$540 = £30,000 \times ($1.612 - $1.630)$		04(
		Foreign Currency Units (£)	48,360	

Foreign Currency Units (£)	48,360
Accounts Receivable (£)	48,360
Receive pounds from customer	

Receive pounds from customer.

11-41

3.

Foreign Currency Payable to Exchange Broker (£) Foreign Currency Units (£)	48,360	48,36
Deliver pounds to broker.		+0,000
Cash	48,900	
Dollars Receivable from Exchange Broker (\$)	10,000	48,90
Receive U.S. dollars from broker in accordance with forward contract.		
October 11		
Accounts Receivable (C\$) Sales Revenue	51,450	51,45
Sale to Canadian firm denominated in Canadian dollars: C\$70,000 x \$0.735		
Dollars Receivable from Exchange Broker (\$)	51,100	
Foreign Currency Payable to Exchange Broker (C\$)		51,10
Sign 60-day forward contract to sell Canadian dollars: \$51,100 = C\$70,000 x \$0.730 forward rate		
November 10		
Foreign Currency Transaction Loss Accounts Receivable (C\$)	210	21
Revalue foreign currency receivable to equivalent U.S. do $51,240 = C70,000 \times 0.732 \text{ Nov. 10 spot rate}$ $-51,450 = C70,000 \times 0.735 \text{ Oct. 11 spot rate}$ $210 = C70,000 \times (0.732 - 0.735)$	llar value:	
Foreign Currency Transaction Loss	140	
Foreign Currency Payable to Exchange Broker (C\$)		14
Revalue foreign currency payable: \$51,240 = C\$70,000 x \$0.732 Nov. 10 spot rate		
<u>- 51,100</u> = C\$70,000 x \$0.730 Oct. 11 forward rate <u>\$ 140</u> = C\$70,000 x (\$0.732 - \$0.730)		
Foreign Currency Units (C\$) Accounts Receivable (C\$)	51,240	51,24
Receive Canadian dollars from customer:		01,27
\$51,240 = C\$70,000 x \$0.732 Nov. 10 spot rate.		
Foreign Currency Payable to Exchange Broker (C\$) Foreign Currency Units (C\$)	51,240	51,24
Deliver Canadian dollars to broker.		
Cash Dollars Receivable from Exchange Broker (\$)	51,100	51,10

P11-22 Foreign Currency Transactions

1. January 15

y 10		
Accounts Receivable	7,400	
Sales Revenue		7,400
Foreign export denominated in U.S. dollars.		

March 15

Cash	7,400	
Accounts Receivable		7,400
Collect receivable from South Korean firm.		

2. March 8

Inventory (or Purchases)	4,354
Accounts Payable (€)	4,354
Foreign inventory purchase with payable de \$4,354 = €7,000 x \$0.622	enominated in foreign currency:

May 1

Accounts Payable (€)	84
Foreign Currency Transaction Gain	84
Revalue foreign currency payable to current U.S. dollar equivalent	:
\$4,270 = €7,000 x \$0.610 May 1 spot rate	
- 4,354 = €7,000 x \$0.622 Mar. 8 spot rate	
<u>\$ 84</u> = €7,000 x (\$0.622 - \$0.610)	

Globe Shipping must settle the payable in foreign currency units. Foreign currency units or foreign currency drafts (checks written in terms of foreign currency units) may be obtained from most major banks.

Accounts Payable (€)	4,270	
Foreign Currency Units (€)		4,270
Settlement of foreign currency payable:		
\$4,270 = €7,000 x \$0.610 May 1 spot rate		

3. May 12

Foreign Currency Rec. from Exchange Broker (NT\$) 3,008	
Dollars Payable to Exchange Broker (\$)	3,008
Signed 120-day forward contract to hedge a foreign currency	
commitment: \$3,008 = NT\$80,000 x \$0.0376 forward rate	

August	1		
nugusi	Foreign Currency Receivable from		
	Exchange Broker (NT\$)	16	
	Foreign Currency Transaction Gain	10	16
	Revalue foreign currency receivable to fair value		10
	33,024 = NT		
	-3,008 = NT\$80,000 x \$0.0376 May 12 forward rate		
	$\frac{-5,000}{5} = 101300,000 \times 30.0370$ May 12 101 ward rate $\frac{5}{16} = 1013000 \times (50.0378 - 50.0376)$		
	$\frac{\phi}{\phi}$ 10 – 11 ϕ 00,000 x (ϕ 0.0378 - ϕ 0.0378)		
	Foreign Currency Transaction Loss	16	
	Firm Commitment		16
	Record the loss on the financial statement aspect of t	he firm	
	commitment:		
	\$16 = NT\$80,000 x (\$0.0378 - \$0.0376)		
	Inventory (or Purchases)	2,984	
	Firm Commitment	16	
	Accounts Payable (NT\$)		3,000
	Receipt of goods and adjustment of inventory cost by	deferrals:	,
	\$3,000 = NT\$80,000 x \$0.0375 Aug. 1 spot rate		
	+-, +,		
Septem	ber 9		
-	Foreign Currency Transaction Loss	48	
	Foreign Currency Receivable from		
	Exchange Broker (NT\$)		48
	Revalue foreign currency receivable to fair value:		
	\$2,976 = NT\$80,000 x \$0.0372 Sept. 9 spot rate		
	<u>- 3,024</u> = NT\$80,000 x \$0.0378 Aug. 1 forward rate		
	<u>\$ 48</u> = NT\$80,000 x (\$0.0372 - \$0.0378)		
	<u> </u>		
	Accounts Payable (NT\$)	24	
	Foreign Currency Transaction Gain		24
	Revalue foreign currency payable:		
	\$24 = NT\$80,000 x (\$0.0372 - \$0.0375)		
	Dollars Payable to Exchange Broker (\$)	3,008	
	Cash		3,008
	Deliver U.S. dollars to forward exchange broker.		
	u u u u u u u u u u u u u u u u u u u		
	Foreign Currency Units (NT\$)	2,976	
	Foreign Currency Receivable from		
	Exchange Broker (NT\$)		2,976
	Receive Taiwan dollars from exchange broker:		
	\$2,976 = NT\$80,000 x \$0.0372 Sept. 9 spot rate.		
	••••		
	Accounts Payable (NT\$)	2,976	
	Foreign Currency Units (NT\$)	-	2,976
	Settle foreign currency payable.		

4. June 6

June 6			
	Accounts Receivable (€)	90,000	
	Sales Revenues		90,000
	Export sale denominated in euros:		
	\$90,000 = €150,000 x \$0.600		
July 6			
	Dollars Receivable from Exchange Broker (\$)	87,000	
	Foreign Currency Payable to Exchange Broker (€)		87,000
	Signed 60-day forward contract to deliver euros:		
	\$87,000 = €150,000 x \$0.580 forward rate		
•			
Septem			i
	Foreign Currency Transaction Loss	2,250	
	Accounts Receivable (€)		2,250
	Revalue foreign currency receivable to equivalent U.S	. dollar value:	
	\$87,750 = €150,000 x \$0.585 Sept. 4 spot rate		
	<u>- 90,000</u> = €150,000 x \$0.600 June 6 spot rate		
	<u>\$_2,250</u> = €150,000 x (\$0.585 - \$0.600)		
	Foreign Currency Transaction Loss	750	
	Foreign Currency Transaction Loss	750	750
	Foreign Currency Payable to Exchange Broker (€)		750
	Revalue foreign currency payable for loss since July 6: \$87,750 = €150,000 x \$0.585 Sept. 4 spot rate		
	-87,000 = €150,000 x \$0.585 Sept. 4 spot rate-87,000 = €150,000 x \$0.580 July 6 forward rate		
	$\frac{-87,000}{5}$ = €150,000 x \$0.580 5019 6 101 ward rate \$ 750 = €150,000 x (\$0.585 - \$0.580)		
	$\frac{\Phi}{\Phi}$ 750 = €150,000 X (ϕ 0.585 - ϕ 0.580)		
	Foreign Currency Units (€)	87,750	
	Accounts Receivable (€)	01,100	87,750
	Receive euros from customer:		01,100
	\$87,750 = €150,000 x \$0.585 Sept. 4 spot rate.		
	Foreign Currency Payable to Exchange Broker (€)	87,750	
	Foreign Currency Units (€)	01,100	87,750
	Deliver euros to exchange broker.		01,100
	Benver euroe te exenange brenen.		
	Cash	87,000	
	Dollars Receivable from Exchange Broker (\$)	01,000	87,000
	Receive U.S. dollars from broker in accordance with fo	orward contract	
	on July 6:		e.g.iou
	\$87,000 = €150,000 x \$0.580 forward contract rate.		
	+- ,		

P11-23A Comprehensive Problem: Four Uses of Forward Exchange Contracts without and with Time Value of Money Considerations

a. Use of forward contract to manage foreign currency risk of exposed foreign currency position. Not designated as a hedge.

12/1/X1	12/31/X1	3/31/X2
Transaction Date	ا Balance Sheet Date	Settlement Date
 Purchase of furniture resulting in foreign currency payable Sign foreign exchange contract to receive Australian dollars o March 31 		 Settle forward exchange contract and receive 100,000 Australian dollars Pay foreign currency payable
Forward rate: A\$1 = \$0.609	A\$1 = \$0.612	
Spot rate: A\$1 = \$0.600	A\$1 = \$0.610	A\$1 = \$0.602
December 1, 20X1 Inventory (or Pu Accounts Pa Foreign currer \$60,000 = A\$ ²	yable (A\$)	60,000 60,000
Dollars Paya Signed forwar payable:	cy Receivable from Exc able to Exchange Broke d exchange contract to 100,000 x \$0.609 forwar	r (\$) 60,900 manage exposed foreign currency
December 31, 20X1		
Accounts Pa Revalue foreig	in currency payable to e	1,000 1,000 equivalent U.S. dollar value:
-60,000 = A\$	100,000 x \$0.610 Dec. 3 100,000 x \$0.600 Dec. 7 100,000 x (\$0.610 - \$0.6	1 spot rate
Foreign Curr Revalue foreig \$61,200 = A\$ ² <u>- 60,900</u> = A\$ ²	cy Receivable from Exc rency Transaction Gain in currency receivable: 100,000 x \$0.612 Dec. 3 100,000 x \$0.609 Dec. 7	300 31 forward rate 1 forward rate
$\Phi 300 = A\Phi$	100,000 x (\$0.612 - \$0.6	

Note: For this case, no entry necessary on January 30, 20X2.

March 31, 20X2		
Foreign Currency Transaction Loss	1,000	
Foreign Currency Receivable from Exchange Broker (A\$)		1,000
Revalue foreign currency receivable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31, 20X2, spot rate		
<u>- 61,200</u> = A\$100,000 x \$0.612 Dec. 31, 20X1, forward rate		
<u>\$ 1,000</u> = A\$100,000 x (\$0.602 - \$0.612)		
Accounts Payable (A\$)	800	
Foreign Currency Transaction Gain		800
Revalue foreign currency payable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31, 20X2, spot rate		
<u>- 61,000</u> = A\$100,000 x \$0.610 Dec. 31, 20X1, spot rate		
<u>\$ 800</u> = A\$100,000 x (\$0.602 - \$0.610)		
Dollars Payable to Exchange Broker (\$)	60,900	
Cash		60,900
Deliver U.S. dollars to exchange broker as required by forward	d contract.	
Foreign Currency Units (A\$)	60,200	
Foreign Currency Receivable from Exchange Broker (A\$)		60,200
Receive A\$100,000 from exchange broker in accordance with	n forward c	ontract:
\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate.		
Accounts Payable (A\$)	60,200	
Foreign Currency Units (A\$)	,•	60,200
Deliver A\$100,000 to creditor.		,

b. Use of forward contract as fair value hedge of foreign currency firm commitment.

12/1/X1	12/31/X1	1/30/X2	3/31/X2
Commitment Date	Balance Sheet Date	Transaction Date	Settlement Date
 — Sign foreign exchange contra to hedge foreign currency payable firm commitment 	•	— Purchase of furniture resulting in foreign currency payable	 Settle foreign currency commitment and receive A\$100,000 Pay foreign currency
Forward rate: A\$1 = \$0.609 Spot rate:	A\$1 = \$0.612	A\$1 = \$0.605	
A\$1 = \$0.600	A\$1 = \$0.610	A\$1 = \$0.608	A\$1 = \$0.602

11-47

ecember 1, 20X1 Foreign Currency Receivable from Exchange Broker (A\$)	60,900	
Dollars Payable to Exchange Broker (\$)		60,900
Signed 120-day forward contract to hedge foreign currency	commitme	ent to
purchase furniture on January 30 for A\$100,000:		
\$60,900 = A\$100,000 x \$0.609 forward rate		
ecember 31, 20X1		
Foreign Currency Receivable from Exchange Broker (A\$)	300	
Foreign Currency Transaction Gain		30
Revalue foreign currency receivable to fair value:		
\$61,200 = A\$100,000 x \$0.612 Dec. 31 forward rate		
<u>- 60,900</u> = A\$100,000 x \$0.609 Dec. 1 forward rate		
<u>\$ 300</u> = A\$100,000 x (\$0.612 - \$0.609)		
Foreign Currency Transaction Loss	300	
Firm Commitment		30
Record the loss on the financial instrument aspect of the fire	n commitr	nent:
\$300 = A\$100,000 x (\$0.612 - \$0.609)		
Inuary 30, 20X2 Foreign Currency Transaction Loss	700	
Foreign Currency Receivable from Exchange Broker (A\$)		70
Revalue foreign currency receivable to current U.S. dollar e		70
	quivalent.	
\$60,500 = A\$100,000 x \$0.605 Jan. 30, 20X2, forward rate		
- 61,200 = A\$100,000 x \$0.612 Dec. 31, 20X1, forward rate \$ 700 = A\$100,000 x (\$0.605 - \$0.612)	;	
$\frac{5}{100} = A5100,000 \times (50.005 - 50.012)$		
Firm Commitment	700	
Foreign Currency Transaction Gain		70
Record the gain on the financial instrument aspect of the fin	m commiti	ment:
\$700 = A\$100,000 x (\$0.605 - \$0.612)		
	61,200	
Inventory (or Purchases)	,	40
Inventory (or Purchases) Firm Commitment		. •
Firm Commitment		60,80
	1:	60,80

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March 31, 20X2		
Foreign Currency Transaction Loss	300	
Foreign Currency Receivable from Exchange Broker (A\$)		300
Revalue foreign currency receivable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate		
- 60,500 = A\$100,000 x \$0.605 Jan. 30 forward rate		
<u>\$ 300</u> = A\$100,000 x (\$0.602 - \$0.605)		
Accounts Payable (A\$)	600	
Foreign Currency Transaction Gain		600
Revalue foreign currency payable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate		
<u>- 60,800</u> = A\$100,000 x \$0.608 Jan. 30 spot rate		
$\underline{\$ 600} = A\$100,000 \times (\$0.602 - \$0.608)$		
Dollars Payable to Exchange Broker (\$) 6	0,900	
Cash		60,900
Deliver U.S. dollars to exchange broker.		
Foreign Currency Units (A\$) 6	0,200	
Foreign Currency Receivable from Exchange Broker (A\$)		60,200
Receive A\$100,000 from broker in accordance with forward contra	act sigi	ned on
December 1:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate.		
	0,200	
Foreign Currency Units (A\$)		60,200
Deliver A\$100,000 to foreign creditor.		

c. Use of forward contract as cash flow hedge of forecasted foreign currency transaction.

12/1/X1	12/31/X1	1/30/X2	3/31/X2
	Dalanas Chast	Tropostion	Cattlement
Commitment Date	Balance Sheet Date	Transaction Date	Settlement Date
— Sign foreign exchange of to hedge fo foreign curr transaction	precasted rency	 Purchase of furniture resulting in foreign currency payable 	 Settle foreign currency commitment and receive A\$100,000 Pay foreign currency payable
Forward rate: A\$1 = \$0.609	A\$1 = \$0.612	A\$1 = \$0.605	
Spot rate: A\$1 = \$0.600	A\$1 = \$0.610	A\$1 = \$0.608	A\$1 = \$0.602
Dolla Signed foreign A\$100,0	Currency Receivable f ars Payable to Exchang 1 120-day forward contr currency transaction of 000:	act as a cash flow hedge of the purchase of furniture of	60,900 of the forecasted
	00 = A\$100,000 x \$0.60	9 forward rate	
December 31, 20 Foreign		rom Exchange Broker (A\$)	300
	r Comprehensive Incor		300

Revalue foreign currency receivable to fair value and record OCI for effective portion of change in fair value of the derivative designated as a cash flow hedge:

 $61,200 = A$100,000 \times 0.612 \text{ Dec. 31}$ forward rate $-60,900 = A$100,000 \times 0.609 \text{ Dec. 1}$ forward rate $300 = A$100,000 \times (0.612 - 0.609)$

January	30, 20X2		
	Other Comprehensive Income	700	
	Foreign Currency Receivable from Exchange Broker (A\$)		700
	Revalue foreign currency receivable to current U.S. dollar eq	uivalent a	nd
	record OCI for the effective portion of the change in fair value	of the der	ivative
	designated as a cash flow hedge:		
	\$60,500 = A\$100,000 x \$0.605 Jan. 30, 20X2, forward rate		
	<u>- 61,200</u> = A\$100,000 x \$0.612 Dec. 31, 20X1, forward rate		
	<u>\$ 700</u> = A\$100,000 x (\$0.605 - \$0.612)		
Г			
	Inventory (or Purchases)	60,800	
	Accounts Payable (A\$)		60,800
	Acquire furniture and value at spot rate:		
	\$60,800 = A\$100,000 x \$0.608 spot rate		
March ?	31, 20X2		
Marchit	Other Comprehensive Income	300	
	Foreign Currency Receivable from Exchange Broker (A\$)	000	300
	Revalue foreign currency receivable and record into OCI the	effective	
	of change in fair value of derivative designated as a cash flow		portion
	$60,200 = A$100,000 \times $0.602 \text{ Mar. 31 spot rate}$	v neuge.	
	$- 60,500 = A$100,000 \times $0.605 Jan. 30 forward rate$		
	$\frac{-60,500}{300} = A$100,000 \times ($0.602 - $0.605)$		
	$\frac{1}{2}$ 300 – A\$100,000 X (\$0.002 - \$0.003)		
	Accounts Payable (A\$)	600	
		600	600
	Accounts Payable (A\$) Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recog		
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recog		
	Foreign Currency Transaction Gain		
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recog into current earnings as specified by ASC 830 :		
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recog into current earnings as specified by ASC 830 : \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate		
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recogninto current earnings as specified by ASC 830 : $$60,200 = A$100,000 \times 0.602 Mar. 31 spot rate $-60,800 = A$100,000 \times 0.608 Jan. 30 spot rate $$600 = A$100,000 \times ($0.602 - $0.608)$	nizing cha	
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recogninto current earnings as specified by ASC 830 : $$60,200 = A$100,000 \times $0.602 \text{ Mar. 31 spot rate}$ $- 60,800 = A$100,000 \times $0.608 \text{ Jan. 30 spot rate}$ $$ 600 = A$100,000 \times ($0.602 - $0.608)$ Foreign Currency Transaction Loss		ange
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830: $$60,200 = A$100,000 x $0.602 Mar. 31 spot rate-60,800 = A$100,000 x $0.608 Jan. 30 spot rate$600 = A$100,000 x ($0.602 - $0.608)Foreign Currency Transaction LossOther Comprehensive Income$	nizing cha	ange 600
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830: $\$60,200 = A\$100,000 x \$0.602$ Mar. 31 spot rate $\underline{-60,800} = A\$100,000 x \0.608 Jan. 30 spot rate $\underline{\$ 600} = A\$100,000 x (\$0.602 - \$0.608)$ Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI set	nizing cha 600 ufficient to	ange 600
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830: $\$60,200 = A\$100,000 \times \$0.602$ Mar. 31 spot rate $\underline{-60,800} = A\$100,000 \times \0.608 Jan. 30 spot rate $\underline{\$ 600} = A\$100,000 \times \$0.602 - \0.608 Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI set completely offset the foreign currency transaction gain on the	nizing cha 600 ufficient to foreign c	ange 600 urrency
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recognitioninto current earnings as specified by ASC 830: $\$60,200 = A\$100,000 \times \$0.602$ Mar. 31 spot rate $\underline{-60,800} = A\$100,000 \times \0.608 Jan. 30 spot rate $\underline{\$ 600} = A\$100,000 \times (\$0.602 - \$0.608)$ Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI set completely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as	nizing cha 600 ufficient to foreign c	ange 600 urrency
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830: $\$60,200 = A\$100,000 \times \$0.602$ Mar. 31 spot rate $\underline{-60,800} = A\$100,000 \times \0.608 Jan. 30 spot rate $\underline{\$ 600} = A\$100,000 \times \$0.602 - \0.608 Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI set completely offset the foreign currency transaction gain on the	nizing cha 600 ufficient to foreign c	ange 600 urrency
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830: $\$60,200 = A\$100,000 \times \$0.602$ Mar. 31 spot rate $\underline{-60,800} = A\$100,000 \times \0.608 Jan. 30 spot rate $\underline{\$ 600} = A\$100,000 \times \$0.602 - \0.608)Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI sic completely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge.	600 600 ufficient to foreign c s a cash f	ange 600 urrency
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate -60,800 = A\$100,000 x \$0.608 Jan. 30 spot rate \$600 = A\$100,000 x \$0.602 - \$0.608 Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI secompletely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$)	nizing cha 600 ufficient to foreign c	600 urrency low
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate -60,800 = A\$100,000 x \$0.608 Jan. 30 spot rate \$600 = A\$100,000 x (\$0.602 - \$0.608) Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI set completely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$) Cash	600 600 ufficient to foreign c s a cash f	ange 600 urrency
	Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate -60,800 = A\$100,000 x \$0.608 Jan. 30 spot rate \$600 = A\$100,000 x \$0.602 - \$0.608 Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI secompletely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$)	600 600 ufficient to foreign c s a cash f	600 urrency low
	Foreign Currency Transaction GainRevalue foreign currency payable using spot rate and recoginto current earnings as specified by ASC 830:\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate-60,800 = A\$100,000 x \$0.608 Jan. 30 spot rate\$600 = A\$100,000 x (\$0.602 - \$0.608)Foreign Currency Transaction Loss Other Comprehensive IncomeIn accordance with ASC 815, reclassify amount from OCI si completely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge.Dollars Payable to Exchange Broker (\$) CashDeliver U.S. dollars to exchange broker.	600 600 ufficient to foreign c s a cash f	600 urrency low
	 Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate <u>-60,800</u> = A\$100,000 x \$0.608 Jan. 30 spot rate <u>\$600</u> = A\$100,000 x (\$0.602 - \$0.608) Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI sign currency offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$) Cash Deliver U.S. dollars to exchange broker.	600 600 ufficient to foreign c s a cash f 60,900	ange 600 urrency low 60,900
	 Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate <u>-60,800</u> = A\$100,000 x \$0.608 Jan. 30 spot rate <u>\$600</u> = A\$100,000 x (\$0.602 - \$0.608) Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI second the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$) Cash Deliver U.S. dollars to exchange broker. Foreign Currency Units (A\$) Foreign Currency Receivable from Exchange Broker (A\$)	600 600 ufficient tc foreign c s a cash f 60,900 60,200	ange 600 urrency low 60,900
	 Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate <u>-60,800</u> = A\$100,000 x \$0.608 Jan. 30 spot rate <u>\$600</u> = A\$100,000 x (\$0.602 - \$0.608) Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI sign currency offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated as hedge. Dollars Payable to Exchange Broker (\$) Cash Deliver U.S. dollars to exchange broker.	600 600 ufficient tc foreign c s a cash f 60,900 60,200	ange 600 urrency low 60,900
	 Foreign Currency Transaction Gain Revalue foreign currency payable using spot rate and recognition current earnings as specified by ASC 830: \$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate <u>600</u> = A\$100,000 x \$0.608 Jan. 30 spot rate <u>\$600</u> = A\$100,000 x (\$0.602 - \$0.608) Foreign Currency Transaction Loss Other Comprehensive Income In accordance with ASC 815, reclassify amount from OCI street completely offset the foreign currency transaction gain on the payable (A\$) that was hedged with a derivative designated at hedge. Dollars Payable to Exchange Broker (\$) Cash Deliver U.S. dollars to exchange broker. Foreign Currency Units (A\$) Foreign Currency Receivable from Exchange Broker (A\$) Receive A\$100,000 from broker in accordance with forward 	600 600 ufficient tc foreign c s a cash f 60,900 60,200	ange 600 urrency low 60,900

Accounts Payable (A\$)	60,200	
Foreign Currency Units (A\$)		60,200
Deliver A\$100,000 to foreign creditor.		

Note: At this point there is still a debit balance of \$100 in Other Comprehensive Income. This balance will be reclassified into earnings at the time the inventory is sold which is the completion of the earnings process of the purchase of the inventory.

d. Forward contract used for speculative purposes only.

12/1/X1	12/3	1/X1	3/31/X2		
Transaction Date	Balan	ce Sheet	Settleme	nt Date	
	Da	ate			
— Sign 120 day			- Settle	forward	
speculative cor				ange contra	act
to purchase 10				eceive	
Australian dolla	ars.		A\$10	0,000	
Forward rate:	ለ ሮ ኅ	¢0 610			
A\$1 = \$0.609	A\$1	= \$0.612			
Spot rate: A\$1 = \$0.600	A\$1	= \$0.610	A\$1 = \$0	.602	
December 1, 20X1					
	rrency Receivable	from Exchai	nge Broker (A\$)	60,900	
	Payable to Exchan			00,000	60,900
	0-day forward con				,
\$60,900 =	A\$100,000 x \$0.6				
December 31, 20X1		<u> </u>			
	rrency Receivable		nge Broker (A\$)	300	200
	Currency Transac		quivalent U.S. dolla	ryoluor	300
	A\$100,000 x \$0.6			ir value.	
	A\$100,000 x \$0.6				
	A\$100,000 x (\$0.				
		+	/		
March 31, 20X2					
	rrency Transactior			1,000	
			hange Broker (A\$)		1,000
	preign currency rea				
	A\$100,000 x \$0.6				
			20X1, forward rate		
<u>\$ 1,000</u> =	A\$100,000 x (\$0.	602 - \$0.612)		
Dollars Pav	able to Exchange	Broker (\$)		60,900	
Cash	able to Excitatinge			00,000	60,900
	S. dollars to forwa	rd exchange	broker.		00,000

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Foreign Currency Units (A\$)	60,200	
Foreign Currency Receivable from Exchange Broker (A\$)		60,200
Receive A\$100,000 from exchange broker:		
\$60,200 = A\$100,000 x \$0.602 spot rate		

e. Use of forward contract to manage exposed foreign currency position, considering the time value of money at a 12 percent annual rate. Forward contract not designated as a hedge.

12/1/X1	12/31/X1	3/31/X2
Transaction Date	 Balance Sheet Date	Settlement Date
 Purchase of furniture resulting in foreign currency payable Sign hedging foreign exchange contract to receive Australian dollars on March 31 Forward rate: 		 Settle forward exchange contract and receive A\$100,000 Pay foreign currency payable
A\$1 = \$0.609	A\$1 = \$0.612	
Spot rate: A\$1 = \$0.600	A\$1 = \$0.610	A\$1 = \$0.602
December 1, 20X1		60,000
Accounts Paya		60,000
Foreign currency	v payable: \$60,000 = A\$	
Dollars Payabl	Receivable from Excha e to Exchange Broker (\$) 60,900
	exchange contract to he	edge exposed foreign currency
payable: \$60,900 = A\$100),000 x \$0.609 forward	rate
December 31, 20X1		
Foreign Currency	Transaction Loss	1,000
Accounts Paya	ible (A\$)	1,000

Revalue foreign currency payable to equivalent U.S. dollar value: $61,000 = A$100,000 \times 0.610$ Dec. 31 spot rate <u>- 60,000</u> = A\$100,000 x \$0.600 Dec. 1 spot rate

 $\frac{1,000}{1,000} = A$ \$100,000 x (\$0.610 - \$0.600)

Foreign Currency Receivable from Exchange Broker (A\$)	291	
Foreign Currency Transaction Gain		291
Revalue foreign currency receivable:		
\$61,200 = A\$100,000 x \$0.612 Dec. 31 forward rate		
<u>- 60,900</u> = A\$100,000 x \$0.609 Dec. 1 forward rate		
<u>\$ 300</u> = A\$100,000 x (\$0.612 - \$0.609)		
cumulative, undiscounted gain from Dec. 1		
<u>\$ 291</u> = NPV (.12 x 3/12, 300) for remaining		
3 months from 12/31/X1 — 3/31/X2		

Note: For this case, no entry necessary on January 30, 20X2.

March 31, 20X2		
Foreign Currency Transaction Loss 9	91	
Foreign Currency Receivable from Exchange Broker (A\$)		991
Revalue foreign currency receivable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31, 20X2, spot rate		
-60,900 = A\$100,000 x \$0.609 Dec. 1, 20X1, forward rate		
(700) = cumulative, undiscounted loss over term of		
forward contract		
- 291 = gain previously recognized on Dec. 31, 20X1		
$\frac{1}{201}$ = gain providely receipting of Deci on, 2000 $\frac{1}{2000}$ = change in fair value this period		
$\frac{\psi}{\psi}$		
Accounts Payable (A\$) 8	800	
Foreign Currency Transaction Gain		800
Revalue foreign currency payable:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31, 20X2, spot rate		
<u>- 61,000</u> = A\$100,000 x \$0.610 Dec. 31, 20X1, spot rate		
<u>\$ 800</u> = A\$100,000 x (\$0.602 - \$0.610)		
Dollars Payable to Exchange Broker (\$) 60,9		
Cash		60,900
Deliver U.S. dollars to exchange broker as required by forward cor	ntract	
Foreign Currency Units (A\$) 60,2	200	
Foreign Currency Receivable from		
Exchange Broker (A\$)		60,200
Receive A\$100,000 from exchange broker in accordance with form		00,200
contract:		
\$60,200 = A\$100,000 x \$0.602 Mar. 31 spot rate.		
Accounts Payable (A\$) 60,2	200	
Foreign Currency Units (A\$)		60,200
		00,200
Deliver A\$100,000 to creditor.		

P11-24 Foreign Purchases and Sales Transactions and Hedging

Part I

- a. Journal entries for Maple's import and export transactions during 20X5 and 20X6:
- 1. March 1, 20X5

, 20/13		
Accounts Receivable (C\$)	19,500	
Sales		19,500
\$19,500 = C\$30,000 x \$0.65 spot rate		

May 30, 20X5

Accounts Receivable (C\$)	900	
Foreign Currency Transaction Gain		900
\$900 = C\$30,000 x (\$0.6865)		

Foreign Currency Units (C\$)	20,400
Accounts Receivable (C\$)	20,400
\$20,400 = C\$30,000 x \$0.68	

Cash	20,400
Foreign Currency Units (C\$)	20,400

2. July 1, 20X5

No entry is recorded when the contract to purchase equipment is signed.

August 30, 20X5

,	
Equipment	52,000
Accounts Payable (¥)	52,000
\$52,000 = ¥500,000 x \$0.104	

October 29, 20X5

Foreign Currency Transaction Loss	1,000	
Accounts Payable (¥)		1,000
\$1,000 = ¥500,000 x (\$0.106 - \$0.104)		

Foreign Currency Units (¥)	53,000	
Cash	53,000	
\$53,000 = ¥500,000 x \$0.106		-
A	50.000	٦

Accounts Payable (¥)	53,000
Foreign Currency Units (¥)	53,000

3.	November 16, 20X5		
	Inventory	16,500	
	Accounts Payable (£)		16,500
	$16,500 = £10,000 \times 1.65$		
	December 31, 20X5		
	Accounts Payable (£)	200	
	Foreign Currency Transaction Gain		200
	\$200 = £10,000 x (\$1.63 - \$1.65)		
	January 15, 20X6		
	Foreign Currency Transaction Loss	100	
	Accounts Payable (£)		100
	\$100 = £10,000 x (\$1.64 - \$1.63)		
	Foreign Currency Units (£)	16,400	
	Cash		16,400
	$16,400 = £10,000 \times 1.64$		
	Accounts Payable (£)	16,400	
	Foreign Currency Units (£)		16,400

b. Maple should report a foreign currency transaction gain of \$100 on its income statement for 20X5. This amount is computed as follows:

Foreign currency transaction gain from transaction denominated in pounds	\$ 200
Foreign currency transaction gain from transaction denominated in Canadian dollars	900
Less foreign currency transaction loss from transaction denominated in yen Foreign currency transaction gain for 20X5	, <u>000</u>) 100

Part II

a. 1. Journal entries for the use of a forward contract to manage the foreign currency exposure of the sale in Canadian dollars:

March 1, 20X5

Dollars Receivable from Exchange Broker	19,200	
Foreign Currency Payable to Exchange Broker (C\$)		19,200
\$19,200 = C\$30,000 x \$0.64 forward rate		

May 30, 20X5

- 1			
	Foreign Currency Transaction Loss	1,200	
	Foreign Currency Payable to Exchange Broker (C\$)		1,200
	\$20,400 = C\$30,000 x \$0.68 May 30 spot rate		,
	- 19,200 = C\$30,000 x \$0.64 March 1 forward rate		
	<u>\$ 1,200</u> = C\$ 30,000 x (\$0.68 - \$0.64)		
	Foreign Currency Payable to Exchange Broker (C\$)	20,400	
	Foreign Currency Units (C\$)	·	20,400

Cash	19,200
Dollars Receivable from Exchange Broker	19,200

P11-24 Part II (continued)

a. 2. Journal entries for the fair value hedge of the firm commitment in Japanese yen.

July 1	, 20X5
--------	--------

Foreign Currency Receivable from Exchange Broker (¥)	52,500	
Dollars Payable to Exchange Broker	:	52,500
\$52,500 = ¥500,000 x \$0.105 July 1 forward rate		

August 30, 20X5

reign Currency Receivable from Exchange Broker (¥)	250	
Foreign Currency Transaction Gain		250
52,750 = ¥500,000 x \$0.1055 Aug. 30 forward rate		
<u>52,500</u> = ¥500,000 x \$0.1050 July 1 forward rate		
<u> 250</u> = ¥500,000 x (\$0.1055 - \$0.1050)		
5	52,750 = ¥500,000 x \$0.1055 Aug. 30 forward rate 52,500 = ¥500,000 x \$0.1050 July 1 forward rate	Foreign Currency Transaction Gain 52,750 = ¥500,000 x \$0.1055 Aug. 30 forward rate 52,500 = ¥500,000 x \$0.1050 July 1 forward rate

Foreign Currency Transaction Loss	250	
Firm Commitment		250
Record loss on financial instrument aspect of firm commitment:		
$\$250 = \$500,000 \times (\$0.1055 - \$0.1050)$		
$\psi 200 = +000,000 \times (\psi 0.1000 - \psi 0.1000)$		

Equipment	51,750	
Firm Commitment	250	
Accounts Payable (¥)		52,000
\$52,000 = ¥500,000 x \$0.104 Aug. 30 spot rate		

October 29, 20X5

Foreign Currency Receivable from Exchange Broker (¥)	250	
Foreign Currency Transaction Gain		250
\$53,000 = ¥500,000 x \$0.1060 Oct. 29 spot rate		
<u>- 52,750</u> = ¥500,000 x \$0.1055 Aug. 30 forward rate		
<u>\$ 250</u> = ¥500,000 x (\$0.1060 - \$0.1055)		
Dollars Pavable to Exchange Broker	52,500	

Cash	52,500	52,500
Foreign Currency Units (¥)	53,000	
Foreign Currency Receivable from Exchange Broker (¥)		53,000

\$53,000 = ¥500,000 x \$0.106 Oct. 29 spot rate

P11-24 Part II (continued)

a. 3. Journal entries for the use of a forward contract to manage its foreign currency exposure in pounds. The forward contract is not designated as a hedge.

November 16, 20X5		
Foreign Currency Receivable from Exchange Broker (£) Dollars Payable to Exchange Broker	16,700	16,700
$16,700 = £10,000 \times 1.67$ Nov. 16 forward rate		10,700
December 31, 20X5		
Foreign Currency Transaction Loss	250	
Foreign Currency Receivable from Exchange Broker (£)	200	250
$16,450 = \pm 10,000 \times \1.645 Dec. 31 forward rate		200
$-16,700 = \pounds10,000 \times \1.67 Nov. 16 forward rate		
$\frac{10,100}{250} = \pm 10,000 \times (\$1.645 - \$1.67)$		
$\underline{\varphi = 200}$ $\approx 10,000 \times (\varphi + 0 + 0)$		
January 15, 20X6		
Foreign Currency Transaction Loss	50	
Foreign Currency Receivable from Exchange Broker (£)		50
\$16,400 = £10,000 x \$1.640 Jan. 5 spot rate		
<u>16,450</u> = £10,000 x \$1.645 Dec. 31 forward rate		
<u>\$ 50</u> = £10,000 x (\$1.640 - \$1.645)		
Dollars Payable to Exchange Broker	16,700	
Cash	10,100	16,700
Foreign Currency Units (£)	16,400	
Foreign Currency Receivable from Exchange Broker (£)		16,400

b. Maple would report a net loss in 20X5 of \$1,100, as follows:

<u>20X5</u> Transaction 1	Loss	<u>Gain</u>
May 30 Part I May 30 Part II	1,200	900
Transaction 2 Aug. 30, 20X5 — Part II Oct. 29, 20X5 — Part I Oct. 29, 20X5 — Part II	250 1,000	250
Transaction 3 Dec. 31, 20X5 Part I Dec. 31, 20X5 Part II	250	200
20X5, Net Loss	_1,100	

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P11-24 Part II (continued)

c. Maple would report a net loss in 20X6, of \$150, as follows:

<u>20X6</u>	Loss	<u>Gain</u>
Transaction 3 Jan. 15, 20X6 — Part I Jan. 15, 20X6 — Part II	100 _50	-
20X6, Net Loss	<u>150</u>	<u>-0-</u>

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P11-25 Understanding Foreign Currency Transactions

- a. Indirect exchange rates for Australian dollars were: December 1, 20X5: A\$70,000 / \$42,000 = 1.667 [\$1 equals A\$1.667] December 31, 20X5: A\$70,000 / \$41,700 = 1.679 [\$1 equals A\$1.679]
- b. The balance in the account Foreign Currency Payable to Exchange Broker was \$39,900 at December 31, 20X5, computed as:
 \$39,900 = A\$70,000 x \$0.57 Dec. 31 forward rate
- c. The direct exchange rate for the 60-day forward contract for the 70,000 Australian dollars was A\$1 = \$0.58. This is the result of the following computation: (\$40,600 / A\$70,000) = \$0.58.
- d. \$40,600 is the amount of Dollars Receivable from Exchange Broker in the adjusted trial balance at December 31, 20X5. The balance in this account does not change because it is denominated in U.S. dollars.
- e. Indirect spot exchange rates for South Korean wons were: October 2: KRW400,000 / \$80,000 = 5 [\$1 equals KRW5] December 31: KRW400,000 / \$80,800 = 4.950 [\$1 equals KRW 4.950] Or, 4.950 = KRW1 / \$0.2020
- f. The Dollars Payable to Exchange Broker was \$82,000 in both the adjusted and unadjusted trial balances. The entry to record the forward contract for the 400,000 South Korean wons on October 2, 20X5, appears below. Note that the account Dollars Payable to Exchange Broker is denominated in U.S. dollars and does not change as a result of exchange rate changes.

Foreign Currency Receivable from Exchange Broker (KRW)	82,000	
Dollars Payable to Exchange Broker (\$)		82,000

g. The direct exchange rate for the 120-day forward contract in South Korean wons on October 2, 20X5, was \$0.205. This amount is determined in the following manner:
 \$82,000 / KRW400,000 = \$0.205. The \$82,000 is the amount of the dollars payable to exchange broker. This amount is computed by using the forward rate.

- h. The accounts payable balance was \$80,800 at December 31, 20X5.
 \$80,800 = KRW400,000 x \$0.2020 Dec. 31 spot rate The entries to support the computations for Problem 11-25 are presented below.
 - 1. Transactions with Australian company

December 1, 20X5		
Accounts Receivable (A\$)	42,000	
Sales		42,000
\$42,000 = A\$70,000 x (\$1/A\$1.667)		

Dollars Receivable from Exchange Broker	40,600
Foreign Currency Payable to Exchange Broker (A\$)	40,600
\$40,600 = A\$70,000 x \$0.58 Dec. 1 forward rate, and also	o dollar amount
stated in problem information(\$0.58 = \$40,600 / A\$70,000)	

December 31, 20X1

Foreign Currency Transaction Loss	300
Accounts Receivable (A\$)	300
\$300 = change in accounts receivable (A\$) as noted in problem information.	

Foreign Currency Payable to Exchange Broker	700	
Foreign Currency Transaction Gain		700
\$39,900 = A\$70,000 x \$0.57 Dec. 31 forward rate		
<u>- 40,600</u> = A\$70,000 x \$0.58 Dec. 1 forward rate		
<u>\$ 700</u> = A\$70,000 x (\$0.57 - \$0.58)		

2. Transactions with South Korean company

October 2, 20X5	
Equipment	80,000
Accounts Payable (KRW)	80,000
\$80,000 = KRW400,000 x \$0.20	

Foreign Currency Receivable from Exchange Broker (KRW)	82,000	
Dollars Payable to Exchange Broker		82,000
000 000 1/DV//00 000 00 0050 1/1 000 000 !		

 $82,000 = KRW400,000 \times 0.2050$, and the 82,000 is presented in the problem for the foreign currency receivable.

December 31, 20X5

Foreign Currency Transaction Loss	800	
Accounts Payable (KRW)		800
\$80,800 = KRW400,000 x \$0.202 Dec. 31 spot rate		
<u>- 80,000</u> = KRW400,000 x \$0.200 October 2 spot rate		
<u>\$ 800</u> = KRW400,000 x (\$0.202 - \$0.200)		

Foreign Currency Transaction Loss	1,000	
Foreign Currency Receivable from Exchange Broker		1,000
\$81,000 = KRW400,000 x \$0.2025 Dec. 31 forward rate		
- 82,000 = KRW400,000 x \$0.2050 Oct. 2 forward rate		
<u>\$ 1,000</u> = KRW400,000 x (\$0.2025 - \$0.2050)		

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P11-26 Matching Key Terms

- 1. E
- 2. H
- 3. F
- 4. A
- 5. I
- 6. L
- 7. O
- 8. B
- 9. M
- 10. C
- 11. N
- 12. K
- 13. J
- 14. G
- 15. D

P11-27B Multiple-Choice Questions on Derivatives and Hedging Activities

1. **d** – An underlying is a financial or physical variable that has observable or objectively verifiable changes. The number of currency units is considered a notional amount within the financial instrument.

(a) *Incorrect.* A security price is observable and verifiable, therefore it is an underlier.

(b) *Incorrect.* A monthly average temperature is observable and verifiable, therefore it is an underlier.

(c) *Incorrect.* A price of a barrel of oil is observable and verifiable, therefore it is an underlier.

2. **c** – Because the increase in value is unrealized, it would be recorded as an increase to OCI. This only applies to a cash flow hedge.

(a) *Incorrect*. Even before it has been realized, it is still recorded through OCI.

(b) *Incorrect.* Current earnings would be adjusted for fair value hedges, not cash flow hedges.

(d) *Incorrect.* Deferred income accounts are not used for unrealized gains or losses.

3. **c** – The net investment must be *less* than that required for other Types, not equal.

(a) *Incorrect.* This is a required element of a derivative instrument.(b) *Incorrect.* This is a required element of a derivative instrument.(d) *Incorrect.* This is a required element of a derivative instrument.

4. **a** – The change for fair value hedges goes to current earnings, while changes in cash flow hedges go to other comprehensive income.

(b) *Incorrect*. Even before the exchange transaction takes place, the changes must be reflected.
(c) *Incorrect*. Decreases in other comprehensive income only occur with cash flow hedges.
(d) *Incorrect*. Earnings should be decreased for fair value hedges.

- 5. **b** Only fair value hedges will reflect the changes in the fair value of the effective portion of a hedhing instrument and be recorded as a part of current earnings for the period.
- 6. **c** Trading securities do not qualify for hedge accounting under ASC 815.

(a) *Incorrect*. The use of hedge accounting for forecasted purchases or sales is allowed under ASC 815.

(b) *Incorrect.* The use of hedge accounting for available for sale securities ia allowed under ASC 815.

(d) *Incorrect.* The use of hedge accounting for unrecognized firm commitments is allowed under ASC 815.

P11-28B A Cash Flow Hedge: Use of an Option to Hedge an Anticipated Purchase.

Entry to record the purchase of the call options on November 30, a. 20X1:

November 30, 20X1

Purchased Call Options	20,000	
Cash		20,000
Purchase call options for 10,000 barrels of oil at a	premium of \$2 per	barrel for
March 1, 20X2. The options are at the money of \$30	per barrel; therefo	ore, the
entire\$20,000 is time value.		

Adjusting entry on December 31, 20X1: December 31, 20X1 b.

ember 31, ZUX I	
Loss on Hedge Activity	14,000
Purchased Call Options	14,000
Record the decrease in the time value of	the options to current earnings.

Purchased Call Options	10,000	
Other Comprehensive Income		10,000
Record the increase in the intrinsic value of the options to o	ther	
comprehensive income.		

Entries to record March 1, 20X2, expiration of options, the sale of c. the options, and the purchase of oil:

March 1, 20X2

Loss on Hedge Activity	6,000
Purchased Call Options	6,000
Record the decrease in the time value of the opti	ions to current earnings. The
options have expired.	-

Purchased Call Options	20,000	
Other Comprehensive Income		20,000
Record the increase in the intrinsic value of the options to o	ther	
comprehensive income.		

Cash	30,000	
Purchased Call Options		30,000
Record the sale of the call options.		

ecord the sale of the call options

Oil Inventory	330,000
Cash	330,000
Record the purchase of 10,000 barrels of oil a	at the spot price of \$33 per

Y۲ ጉዞ 1 barrel.

P11-28B (continued)

d. June 1, 20X2, entries to record the sale of the oil and other entries:

June 1, 20X2		
Cash	340,000	
Sales		340,000
Record the sale of 10,000 barrels of oil at \$34 per barrel.		
Cost of Goods Sold	330,000	
Oil Inventory		330,000
Recognize the cost of the oil sold.		
Other Comprehensive Income – Reclassification	30,000	
Cost of Goods Sold		30,000

Reclassify into earnings the other comprehensive income from the cash flow hedge.

P11-29B A Fair Value Hedge: Use of an Option to Hedge Available-for-Sale Securities.

a. November 3, 20X2, entries:

Available-for-Sale Securities	1,200	
Cash		1,200
Purchase 100 shares of IPS at \$12 per share		

Purchase 100 shares of JRS at \$12 per share.

Put Option	100	
Cash		100
Purchase put options for 100 shares of JRS at \$12 per share a	t a cost of	
\$100.		

b. December 31, 20X2, entries to record revaluations of stock and options:

Dec	ember 31, 20X2		
	Put Option 1	00	
	Gain on Hedge Activity		100
	Record increase in intrinsic value of put options to current earning	gs	
	Loss on Hedge Activity 1	00	
	Available-for-Sale Securities		100

Record decrease in fair value of hedged available-for-sale securities to current earnings, in accordance with **ASC 815**:

\$100 = (\$12 - \$11) x 100 shares

Loss on Hedge Activity	60	
Put Option		60
	· · · · · · · · · · · · · · · · · · ·	

Record decrease in the time value of the options.

c. Entries for March 3, 20X3, to record exercise of the put option and the sale of securities:

Mar	ch 3, 20X3		
	Put Option 5	0	
	Gain on Hedge Activity		50
	Record increase in intrinsic value of put options to current earnings	5	

Loss on Hedge Activity	50
Available-for-Sale Securities	50
Record decrease in fair value of hedged avail	able-for-sale securities to current

Record decrease in fair value of hedged available-for-sale securities to current earnings, in accordance with **ASC 815**:

\$50 = (\$11 - \$10.50) x 100 shares

P11-29B (continued)

Loss on Hedge Activity Put Option	40	40
Record decrease in the time value of the options. The c expired.	options have now	10
Cash Put Option	1,200	150

Cash	1,200
Put Option	150
Available-for-Sale Securities	1,050
Exercise the put option and sell securities at option price of	\$12 per share.

P11-30B Matching Key Terms – Hedging and Derivatives

- 1. L
- 2. E
- 3. M
- 4. D
- 5. G
- 6. I
- 7. A
- 8. K
- 9. H
- 10. N
- 11. F
- 12. B
- 13. J
- 14. O
- 15. C

P11-31 Determining Financial Statement Amounts

	Transaction			
Forward Contract Receivable	1 \$20,200	2 \$20,200	3 \$20,200	4 \$20,200
Inventory	19,800	21,000	21,000	NA
Accounts Payable	19,600	19,600	19,600	NA
Foreign Currency Exchange Gain (Loss), net	1,000	G NA	1,000	G 800 G
Other Comprehensive Income Gain (Loss), net	NA	2,200	G NA	NA
Computational support: Forward Contract Receivable: \$2	0,200 = €20),000 x \$1.01	12/31 forward ra	ate
Inventory: \$19,800 = \$21,000 accounts payable less \$1,200 firm commitment \$21,000 = €20,000 x \$1.05 11/30 spot rate				
Accounts Payable: \$19,600 = €20,0	000 x \$0.98	12/31 spot ra	ate	
Foreign Currency Exchange Gain or (Loss), net: Transaction 1: \$1,000 = \$1,200 exchange gain on forward contract from change in forward rate from 9/1 to 11/30: (€20,000 x (\$1.03 -\$0.97)) 1,200 exchange loss on firm commitment for change in forward rate from 9/1 to 11/30: (€20,000 x (\$1.03 -\$0.97)) 400 exchange loss on forward contract from change in forward rate from 11/30 to 12/31: (€20,000 x (\$1.01 -\$1.03)) 1,400 exchange gain on account payable for change in spot rate from 11/30 to 12/31: (€20,000 x (\$0.98 -\$1.05)) 				
Transaction 2: No net foreign	currency ex	change gain	because ASC 8	15 specifies

Transaction 2: No net foreign currency exchange gain because **ASC 815** specifies an offset of the gain from the revaluation of the account payable by an equal amount from other comprehensive income.

Transaction 3: \$1,000 = \$ ⁻		exchange gain on account payable from change in spot rate from 11/30 to 12/31: ($\leq 20,000 \times (\$0.98 -\$1.05)$) exchange loss on forward contract from change in forward rate from 9/1 to 12/31: ($\leq 20,000 \times (\$1.01 -\$1.03)$)
Transaction 4: \$ 800 =		exchange gain on forward contract from change in forward rate from 9/1 to 12/31: (€20,000 x (\$1.01 -\$0.97))
	5 80Ò	Loss), net: OCI gain on forward contract from change in forward rate from 9/1 to 12/31: (€20,000 x (\$1.01 -\$0.97)) OCI gain on the reclassification from OCI to offset the exchange gain on the account payable from the change in the spot rate from 11/30 to 12/31, as required by ASC 815 : (€20,000 x (\$0.98 -\$1.05))

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