CHAPTER Study aide and Assessment

Living in the Real World

A Financial Gem?

Analyze the Story Perhaps Yuma thinks using a credit card is the way to go when he is tight on cash. Charge it and the worries go away, right? Wrong. It only adds up and can lead to serious financial problems for years (or even decades).

- Reasoning. If Yuma maintains a high daily balance on his credit card, would it be better for him to find a company that calculates the finance charge based on the unpaid balance?
- Choosing a Method. Yuma's credit card company uses a finance charge of 1.2 percent for an unpaid balance. Complete the credit card statement on your own piece of paper. (Note: Minimum payment is 12 percent of the previous balance.)

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
3727485	4/11		PAYMENT		\$900.00
4565298	4/15	4/01	Metal	\$250.95	
5473445	4/23	4/21	Stones	198.42	
3566455	4/25	4/23	Clips	55.74	
Billing Period	Previou Balanc			verage y Balance	Finance Charge
4/1-5/1	\$320.0	00 1.2	2%		
Payments & Credits	Purchas & Advan	AND DESCRIPTION OF THE PERSON	PROPERTY AND PROPERTY OF THE P	linimum ayment	Payment Due
\$900.00	1				5/25

3 Decision Making.
The best thing to do is pay off your credit card statement at the end of each month. Yuma just sold several of his best pieces of jewelry to the Native American arts museum. What should Yuma do with the money when he receives it?

After YOU READ

REVIEW OF KEY WORDS

account statement (p.258) charge account (p.258) finance charge (p. 258) credit card (p. 258) unpaid-balance method (p. 261) average-daily-balance method (p. 264)

Match one of the key words above with a definition below.

- a way of computing finance charges where the average of the charge account balance is averaged at the end of each day in the billing period.
- a document you receive with a monthly listing of all transactions processed by the closing date of that month.
- **3.** allows the holder to buy things on demand by presenting it.
- **4.** a line of credit, often at a particular business.
- **5.** the interest charged on the amount you owe.

Skills and Concepts

SECTION OBJECTIVE 7-1 AND EXAMPLES

Calculate the new balance in a charge account.

Your monthly statement has a previous balance of \$504.33, with a payment of \$50.00, new purchases of \$12.35 and \$39.54, and a finance charge of \$5.67. What is the new balance?

STEP: Find the new balance.

= \$511.89

REVIEW EXERCISES

What is the new balance for the credit card statements shown?

	Billing Date	Previous Balance	Finance Charge	New Purchases	Payments & Credits	New Balance
	9/27/	\$ 306.55	\$ 6.75	\$ 209.54		
	6/29/	985.66			\$175.00	
The same	5/25/		9.06	1,239.44	300.00	
		121.09	2.35	219.30	53.00	
(6/15/	1,239.92	18.56	500.00	895.00	

SECTION OBJECTIVE 7-2 AND EXAMPLES

Find the finance charge by using the unpaid-balance method.

Aldo Vazquez has a charge account at Robert's Bike Shop, which uses the unpaid-balance method of computing finance charges. The periodic rate is 1.25 percent. If Vazquez's previous balance was \$569.32 and he had payments and credits of \$150.00, find his unpaid balance and finance charges. He had new purchases of \$97.50. Find his new balance.

STEP 2: Find the finance charge.

REVIEW EXERCISES

- **10.** Denise Shelby's account statement. Unpaid balance of \$210.94. Periodic rate of 1.85 percent. What is the finance charge? New purchases of \$341.22. What is the new balance?
- 11. Fredericka Smith's account statement. Unpaid balance of \$75.06. Periodic rate of 2 percent. What is the finance charge? New purchases of \$432.11. What is the new balance?

Use a periodic rate of 1.25 percent and the unpaid-balance method of computing the finance charge for Problems 12 and 13.

	Previous Balance	Payments & Credits	Unpaid Balance	Finance Charge	New Purchases	New Balance
12.	\$400.00	\$200.00	a.	b.	\$300.00	c.
13.	654.99	300.00	a.	b.	76.45	c.

SECTION OBJECTIVE 7-3 AND EXAMPLES

Calculate the finance charge based on the average-daily-balance method where no new purchases are included.

A portion of Jamal Johnson's credit card statement is shown. A finance charge was added to his account balance because he did not pay his last bill in full. The finance charge was computed using the average-daily-balance method where new purchases are not included. Find the average daily balance, finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
7044598	6/04	6/02	Pictures	\$103.95	
7044791	6/13		PAYMENT		\$50.00
7049810	6/22	6/18	Shirt	56.49	
7050002	6/27	6/22	Paint	19.95	
Billing Period	Previous Balance	Perio Rat		erage Balance	Finance Charge
6/1-6/30	\$125.88	1.5	% a.	b.	
Payments & Credits	Purchase & Advance			nimum yment	Payment Due
\$50.00	\$180.39	c.	\$	25.00	7/31

STEP 1: Find the sum of the daily balances.

Dates	Payment	End-of-Day Balance	Number of Days	Sum of Balances
6/1-6/12		\$125.88	12	\$1,510.56
6/13	\$50.00	75.88	1	75.88
6/14-6/30		75.88	17	1,289.96
		TOTAL	30	\$2,876.40

STEP 2: Find the average daily balance.

Sum of Daily Balances ÷ Number of Days

\$2,876.40 68.25 30 = \$95.88 average daily balance

STEP 3: Find the finance charge.

Average Daily Balance × Periodic Rate

\$95.88 × 1.5% = \$1.438 or \$1.44 finance charge

STEP 4: Find the new balance.

Previous Balance - (Payments + Credits)

\$125.88 \$50 = 75.88

Unpaid Balance + Finance Charge + New Purchases \$75.88 + \$1.44 + \$180.39

\$1.44 + \$180.39 = \$257.71 new balance

REVIEW EXERCISES

14. George Silas has a bank credit card. A portion of his account statement is shown below. Find the average daily balance excluding new purchases, the finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
2100091 2100187	3/07 3/17	3/06	Mower PAYMENT	\$188.95	
2100766 2100789	3/20 3/22	3/18 3/19	Bicycle Work shoes	58.88 14.88	\$75.00
Billing Period	Previou Balance			erage Balance	Finance Charge
3/1-3/31	\$651.20	1.75%	% a.	b.	
Payments & Credits	Purchase & Advanc			imum ment	Payment Due
\$75.00	\$262.71	c.	\$25	5.00	4/30

REVIEW EXERCISES (continued)

The finance charge is computed using the average-daily-balance method where no new purchases are included. Find the finance charge and the new balance for the following statements.

15.	Billing	Previous	Periodic	Average	Finance
	Period	Balance	Rate	Daily Balance	Charge
	7/01-7/31	\$156.90	2%	\$143.00	a.
	Payments	Purchases	New	Minimum	Payment
	& Credits	& Advances	Balance	Payment	Due
	\$85.00	\$35.00	b.	\$10.00	8/15

6.	Billing	Previous	Periodic	Average	Finance
	Period	Balance	Rate	Daily Balance	Charge
	9/01-9/30	\$705.09	1.5%	\$655.35	a.
	Payments	Purchases	New	Minimum	Payment
	& Credits	& Advances	Balance	Payment	Due
	\$100.00	\$0.00	b.	\$25.00	10/10

Find the average daily balance, the finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
6345666 6345788	10/25 11/4	10/20 11/1	Dept. store PAYMENT	\$32.45	\$40.00
Billing Period	Previous Balance		Charles Charles (Charles Late State Charles Ch	rerage Balance	Finance Charge
10/15-11/14	\$45.66	1.5	% a. _t	b.	.0.
Payments & Credits	Purchase & Advanc		A CONTRACTOR OF THE PROPERTY O	nimum yment	Payment Due
\$40.00	\$32.45	c.	1 5	515.00	12/10

SECTION OBJECTIVE 7-4 AND EXAMPLES

Compute the finance charge based on the average-daily-balance method where new purchases are included.

Martin Choi has a department store charge account where the finance charge is computed using the average-daily-balance method that includes new purchases. What is his average daily balance and his finance charge? What is his new balance?

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
3809018 3809117	11/10 11/20	11/8 11/15	Fine art PAYMENT	\$125.44	\$200.00
Billing Period	Previous Balance	Perioc Rate	SERVICE STREET, SELA	erage Balance	Finance Charge
11/04–12/03	\$623.11	1.25%		b.	ge
Payments & Credits	Purchases & Advance	CONTRACTOR OF THE PARTY OF THE		imum ment	Payment Due
\$200.00	\$125.44	c.	\$20	0.00	12/20

STEP 1: Find the sum of the daily balances.

Dates	Payment	Purchase	End-of-Day Balance	Number of Days	Sum of Balances
11/04-11/09			\$623.11	6	\$ 3,738.66
11/10		\$125.44	748.55	1	748.55
11/11-11/19			748.55	9	6,736.95
11/20	\$200.00		548.55	1	548.55
11/21–12/3			548.55	13	7,131.15
			TOTAL	30	\$18,903.86

STEP 2: Find the average daily balance.

Average Daily Balance = $\frac{\text{Sum of Daily Balances}}{\text{Number of Days}}$

 $$18,903.86 \div 30 = 630.13 average daily balance

STEP 3: Find the finance charge.

 $$630.13 \times 1.25\% = $7.88 \text{ finance charge}$

STEP 4: Find the unpaid balance.

Previous Balance - (Payments + Credits)

\$623.11 - \$200.00 = \$423.11

STEP 5: Find the new balance.

Unpaid Balance + Finance Charge + New Purchases

\$423.11 + \$7.88 + \$125.44 = \$556.43 new balance

REVIEW EXERCISES

18. Drew Williams received this statement from his bank. Find the average daily balance (new purchases included), the finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
1238090 2789433 3459811 4334681	2/5 2/10 2/17 2/27	2/3 2/8 2/15 2/24	Home repairs PAYMENT Discount store PAYMENT	\$ 75.66	\$100.00 50.00
Billing Period	Previo Balar			rerage r Balance	Finance Charge
2/01-2/28	\$36.	54 2.1	1% a.	b.	
Payments & Credits	Purcha & Adva			nimum Iyment	Payment Due
\$150.00	\$273	.99 c.	1	10.00	3/15

19. Freddie Vargo received this statement from the department store. Find the average daily balance (new purchases included), the finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
2034599 2034766 2040009 2040065	3/2 3/11 3/20 3/25	3/8 3/12	PAYMENT Housewares Shoes PAYMENT	\$123.96 56.49	\$35.00 50.00
Billing Period	Previo Balan			rerage Balance	Finance Charge
3/1-3/31	\$200.3	34 2	% a.	b.	
Payments & Credits	Purcha & Adva		A.A. CHESTON CONTRACTOR	nimum Iyment	Payment Due
\$85.00	\$180.	45 c.	9	25.00	4/30

20. Monica Sweeny received this statement from Market Street Bank. Find the average daily balance (new purchases included), the finance charge, and the new balance.

Reference	Posting Date	Transaction Date	Description	Purchases & Advances	Payments & Credits
1809008 1809039 1809111 1809388	9/20 9/25 10/02 10/10	9/15 9/29	PAYMENT Sports Inc. PAYMENT	\$25.44 66.74	\$100.00 50.00
Billing Period	Previou: Balance			erage Balance	Finance Charge
9/15-10/14	\$321.99	1.75	5% a.	b.	
Payments & Credits	Purchase & Advanc		A ASSESSED FOR THE PROPERTY OF THE PARTY OF	nimum yment	Payment Due
\$150.00	\$92.18	c.	1 . 9	515.00	11/10