# Math for Financial Literacy ©2013 Chapter 7: Credit Cards-Checkpoint Solutions 

## Checkpoint 7.1

1. Armando checked his department store credit account balance online and learned that it was $\$ 375.16$. He charged a pair of shoes to his account for $\$ 83.47$. If his credit limit is $\$ 500$, what is the remaining available credit on this account?

Answer: $\$ 41.37$
2. Ana received her credit card bill in the mail, and it showed an account balance of $\$ 679.35$. She made a purchase of $\$ 114.64$ that is not shown on the bill. If her credit limit is $\$ 1,500$, what is Ana's remaining available credit on this account?

Answer: $\quad \$ 706.01$
3. Garrett has a gasoline company credit card. He has a balance of $\$ 110.43$, and the bank raised his credit limit to $\$ 750$. What is Garrett's remaining available credit on this account?

Answer: $\quad \$ 639.57$
4. Yolanda has a credit card with a balance of $\$ 743.15$ and a credit limit of $\$ 1,500$.

She also has a second credit card with no balance and a credit limit of $\$ 2,000$. What is Yolanda's combined available credit?

Answer: $\quad \$ 2,756.85$
5. Rishi checked his credit card account online and noticed that he has a current balance of $\$ 1,620.77$ and remaining available credit of $\$ 2,879.23$. What is the credit limit on Rishi's account?

Answer: $\quad \$ 4,500$

## Checkpoint 7.2

1. Sabrina has a credit card with an APR of $22.7 \%$. What is her monthly periodic rate? Round to the nearest ten-thousandth ( 0.0001 ) if necessary.

Answer: 1.8917\%
2. Byron has a credit card with an APR of $17.6 \%$. The billing cycle is monthly, and an unpaid balance method is used to calculate the finance charge. His previous balance was $\$ 1,658.73$. During the month, he made a $\$ 175$ payment. What is Byron's new balance?

Answer: \$1,505.49
3. Lee has a credit card with a $22.3 \%$ APR and a 30-day billing period that uses the average daily balance method to calculate the finance charge. His daily balances for one billing period are shown in the following chart. Lee had a previous balance of $\$ 445.93$, made a payment of $\$ 350$, and has new purchases that total $\$ 1,643.57$. Determine Lee's average daily balance.

Answer: $\quad \$ 1,219.62$
4. Padma has a credit card with a $21.9 \%$ APR and a 30-day billing period that uses the average daily balance method to calculate the finance charge. Her daily balances for one billing period are shown in the following chart. Padma had a previous balance of $\$ 263.71$. She made a payment of $\$ 225$ and new purchases that total $\$ 1,270.88$. Determine Padma's average daily balance.

Answer: $\$ 938.94$
5. Alexandria received a set of convenience checks with her last credit card statement. She decided to use one of the checks to transfer a balance from another credit card to this credit card account. The check has a fee of $1.75 \%$, and Alexandria wrote the check for $\$ 769.42$. Calculate the fee that Alexandria will pay for using the convenience check.

Answer: \$13.46

## Checkpoint 7.3

1. Jason has a credit card with a nominal APR of $17.65 \%$. The interest on unpaid balances compounds daily. What is the EAR?

Answer: $\quad 19.3 \%$
2. Lashawna works as a travel agent and earns \$33,950 per year.
mortgage: \$560.92
car loan: \$239.76
credit cards: \$163.74
Answer: $34.1 \%$
3. Rolando works as an agricultural inspector and earns $\$ 1,628.46$ biweekly. mortgage: \$858.16
car loan: \$217.94
student loans: \$207.73
credit cards: \$185.76
Answer: $\quad 41.7 \%$
4. Melanie works as an aircraft repair technician and earns $\$ 2,220$ semimonthly. mortgage: \$749.16
car loan: \$178.63
student loans: \$201.74
credit cards: \$148.77
Answer: $\quad 28.8 \%$
5. Sheng has two credit cards. He used his credit card statements to make the summary table that follows. Sheng is also eligible for a debt consolidation loan with an APR of $10.7 \%$ that reduces his monthly payments to $\$ 179.37$. This loan will take six years to pay off, and Sheng will pay a total of $\$ 3,414.39$ in interest charges. How much more in interest charges will the debt consolidation loan cost Sheng?

Answer:
$\$ 765.39$

