

Do You Like to Spend Money?

Strand:	Computation and Estimation
Topic:	Solving problems involving percents and reconciling an account balance
Primary SOL:	8.4 The student will solve practical problems involving consumer applications
Related SOL:	7.3

Materials

- *Do You Like to Spend Money?* activity sheet (attached)

Vocabulary

discount, percent, sales tax, tip (earlier grades)

balance, credit, interest, transaction, reconcile an account (8.4)

Student/Teacher Actions: What should students be doing? What should teachers be doing?

1. This lesson should be taught after teaching and reviewing sales tax, discount, tip, and interest. Review the process in calculating the sales tax, discount, tip, and interest.
2. Distribute the *Do You Like to Spend Money?* activity sheet, and have students work with partners to complete it. As students work, circulate around the classroom to provide assistance, as needed.
3. When students are finished, have them share their results.

Assessment

- **Questions**
 - Why is it important to be able to calculate discount, sales tax, tip, and interest?
 - Why is it important to reconcile your credit and debit card accounts?
- **Journal/writing prompts**
 - Explain practical situations in which you would have to determine discounts.
 - Discuss why some businesses make markups before they advertise discounts.
- **Other Assessments**
 - Provide students with receipts and have them create a credit card statement.
 - Have students create an inaccurate credit card statement based on a list of purchases. Then, have students trade the statements to find the wrong charges.

Extensions and Connections

- Have students create their own shopping trip where students will track their spending. Then have students create their own credit card statements to match their charges.

Strategies for Differentiation

- Adjust the sales tax to another percentage, such as 5.5 percent.
- Discuss reconciling an account.

Mathematics Instructional Plan – Grade 8

- Provide previously completed class notes on discount, sales tax, and tip.
- Provide students with one or more completed examples of calculating discount, sales tax, tip, and interest for reference.

Note: The following pages are intended for classroom use for students as a visual aid to learning.

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Do You Like to Spend Money?

Name _____ Date _____

Scenario

You have a busy day of errands ahead of you. Your favorite store is having a super sale. You go into the store and decide to buy from the following items.

SALE!!!	SALE!!!	SALE!!!	SALE!!!	SALE!!!
		<u>Original Price</u>		<u>Discount</u>
T-shirts		\$12.00		25% off
Shorts		\$15.00		20% off
Jeans		\$35.00		40% off
Sweatshirts		\$20.00		30% off

You purchase two T-shirts, one pair of shorts, two pairs of jeans, and one sweatshirt. Use the table below to calculate the cost of each item.

Discount Table					
Item	Original Price	Discount Amount	Sale Price	Sales Tax (5%)	Final Price
2 T-shirts					
Pair of shorts					
2 pairs of jeans					
Sweatshirt					

What is the total cost for all of the discounted items, including sales tax? _____

You leave your favorite store excited about your savings. Your next stop is a local salon and barbershop. The services they provide are listed below.

<u>Services</u>	
Shampoo and Cut	\$17
Shampoo and Color	\$50
Full Highlights	\$70
Taper Haircut and Lineup	\$18

You decide to get a shampoo and cut. You leave your hairstylist a 20 percent tip. What is the total amount of money you spent at the salon and barbershop?

Your last stop is a local restaurant. You order a cheeseburger, a slice of pie, and a soda from the menu below. The service was excellent, so you decide to leave a 40 percent tip. What was the total cost of your meal, including tip? _____



Task

Your credit card statement has just arrived. It is important that you check the statement to determine whether the money you spent on errands matches the money charged to your account. Review the credit card statement below. Fill in all of the missing information.

Bank Credit Card Account Statement
Account Number 1234 5678 9101
November 19, 2017 to December 20, 2017

Account Activity		Payment Information	
Previous Balance	\$0.00	New Balance	\$ _____
Purchases	\$ _____	Payment Due Date	1/18/18
12% Interest Charged	\$ _____	QUESTIONS? Customer Service 1-800-CRE-DIT1	
New Balance	\$ _____		
Credit Limit	\$500.00		
Available Credit	\$ _____		

Transactions			
Trans Date	Post Date	Description	Amount
11/25/17	11/26/17	Super Sale	\$90.30
11/25/17	11/26/17	Salon and Barber Shop	\$26.84
11/25/17	11/26/17	Restaurant	\$12.39

Check your transactions to ensure that the charges for your shopping spree, haircut, and meal match the amounts charged. Which transaction was charged wrong? _____