

# Another Day, Another Dollar

5<sup>th</sup>  
Grade

economics

sales tax

bank

debt

supply

budget

services

producers

consumers

demand



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*Certificate of Completion*

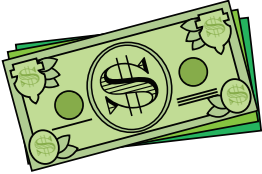
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*\* Has an Answer Sheet*

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# Economics 101

To complete this workbook, it will help if you know a few key terms. Define each term using a dictionary or the Internet.



economics \_\_\_\_\_

bank \_\_\_\_\_

sales tax \_\_\_\_\_

consumers \_\_\_\_\_

producers \_\_\_\_\_

services \_\_\_\_\_

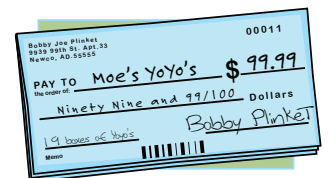


budget \_\_\_\_\_

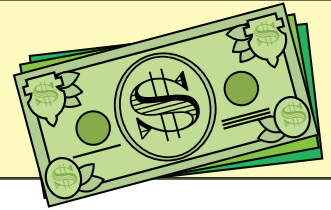
supply \_\_\_\_\_

debt \_\_\_\_\_

demand \_\_\_\_\_



Fill in the blanks using the terms from the previous page. No peeking!



1. \_\_\_\_\_ are people who buy products.
2. People and companies who make and sell goods and services are \_\_\_\_\_.
3. A \_\_\_\_\_ keeps track of exactly how much money is coming in and exactly how much money is going out.
4. \_\_\_\_\_ is added to the listed price of consumer goods.
5. When consumers want a lot of a particular product, \_\_\_\_\_ increases.
6. Producers control the number of products they sell, also called the \_\_\_\_\_.
7. A \_\_\_\_\_ is a place where money changes hands. It is supposed to be a secure place that will keep your money safe.
8. \_\_\_\_\_ is the study of the transfer of money and the production and consumption of products.



9. When someone owes money, the amount owed is called \_\_\_\_\_.

10. When people get paid for helping others, those people are providing \_\_\_\_\_.

# HISTORY OF AMERICAN MONEY

Study this timeline of important events in the history of money in the United States.

## Timeline events

1792

The original U.S. Mint is established in Philadelphia, Pennsylvania, which was temporarily the country's capital city. The mint produces only coins, such as the \$10 coin, one-cent coin, and half-cent coin.

1796

The dime and quarter are produced by the mint for the first time.

1861

Congress needs money to finance the Civil War and authorizes the mint to print paper money. People could redeem the bills for coins on demand, which created the term "demand notes." Paper bills were nicknamed "greenbacks," a term that is still used today to refer to U.S. currency.

1862

The first \$1 bill is printed bearing picture of President Abraham Lincoln's treasury secretary, Salmon P. Chase.

1869

George Washington's portrait appears on the \$1 bill for the first time. His picture remains on the bill today.

1877

1877: The U.S. Treasury Department's Bureau of Engraving and Printing (BEP) becomes the single producer of American paper currency.

1957

The \$1 bill becomes the first U.S. currency to bear the motto "In God We Trust."

1969

The treasury secretary announces that bills in denominations larger than \$100 will no longer be produced.

1991

The BEP begins production of the first \$100 bills that contain an embedded security thread and microprinting.

1996

New \$100 bills are released that have a larger portrait and new features to prevent counterfeiting.

2010

The mint begins producing quarters with national parks pictured on them. This is part of the mint's "America the Beautiful Quarters" program.

Answer these questions about the history of American money.

1. Where was the first U.S. Mint? \_\_\_\_\_

2. What was Salmon P. Chase's position in the U.S. government when he appeared on the \$1 bill? \_\_\_\_\_

3. What was the major difference between the original U.S. Mint and the BEP? \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

4. What was the official name for "greenbacks" in 1861? \_\_\_\_\_

5. In what year did the U.S. Mint start making its "America the Beautiful Quarters"? \_\_\_\_\_

In 1792, coins were practically made by hand. It took coiners three years to produce the first million coins. Today, it takes 22.2 hours to produce the same number of coins.

Before paper money, Americans traded animal skins, such as those from deer and elk bucks. This is why dollars are sometimes called "bucks."

6. If you could create a new denomination in U.S. currency, what would be the amount? Whose picture would you put on your new currency, and why?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



# How much does it REALLY cost?

The day is finally here! You have saved three months' worth of allowance, last month's birthday money, and the money you've earned mowing your neighbor's lawn every Saturday. It's now time to go shopping for the video camera you've been saving up to buy. The clerk at the counter says it only costs \$149... but, how much does it really cost?

Whenever you make a purchase in the United States, you pay sales tax in addition to the listed price of the item. Sales tax is calculated by multiplying the price by the tax rate. To calculate the true cost of your new camcorder, you need to calculate the sales tax.

The tax rate varies according to the type of item you are buying and which state you're in, but imagine the tax rate for electronics in your state is 8.2 percent. Your camcorder will cost you \$149 plus 8.2 percent of \$149.

To find the sales tax amount, multiply the price by the sales tax. Divide the answer by 100 to find the total sales tax, and round the answer up to the nearest cent. Add this amount to the price, and now you have total amount you will pay for the camcorder.

**Step 1: Multiply listed price by 8.2.**

$$\$149 \times 8.2 = \$1,221.8$$

**Step 2: Divide by 100.**

$$\$1,221.8 \div 100 = \$12.218$$

**Step 3: Round to nearest cent.**

$$\$12.218 \Rightarrow \$12.22$$

**Step 4: Add the answer to the listed price.**

$$\$12.22 + \$149 = \$161.22$$

Calculate the actual costs for the following items at a tax rate of 8.2 percent. Show your work.



Board Game \_\_\_\_\_

Video Game \_\_\_\_\_

Cell Phone \_\_\_\_\_

Baseball Cap \_\_\_\_\_

Movie \_\_\_\_\_

Now try calculating the total cost of items at different tax rates:



1. An art set has a price tag of \$14.99 at a tax rate of 6.25%. What is the total cost of the art set?

---



2. The price of a baseball bat is \$39.99. At a 7% tax rate, how much does the bat cost?

---



3. A necklace is priced at \$25.99. At a tax rate of 9.5%, what is the total cost of the necklace?

---



4. You are buying a pair of inline skates for \$135.50 and a helmet for \$55.00. If the store charges a tax rate of 8.25%, what will be the total cost of the skates and the helmet?

---

# Winter Sale

With some searching and patience, many consumers find discounted prices or “sales” when they shop. For example, a raincoat may cost \$30, but if there’s a sale and all items are 50 percent off the original price, you can buy the raincoat for \$15!

To calculate the price of an item that is discounted, multiply the original price by the percentage off. Divide the product by 100, and subtract the quotient from the original price.

**Step 1: Multiply listed price by the percentage off.**

$$\$30 \times 50 = \$1,500$$

**Step 2: Divide by 100.**

$$\$1,500 \div 100 = \$15$$

**Step 3: Subtract from the original price.**

$$\$30 - \$15 = \$15$$

**Find the sale price of these items.  
All items are 50 percent off!**



Mittens

Ice Skates

Scarf

On the previous page, you found the sale price of certain items when they were sold at 50 percent off, but you didn't have to add sales tax. If the tax rate is 7.25 percent, how much will each item cost?



Raincoat \_\_\_\_\_

Mittens \_\_\_\_\_

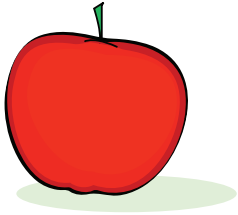
Ice Skates \_\_\_\_\_

Scarf \_\_\_\_\_

If you wanted to buy all these items together, how much would it cost?

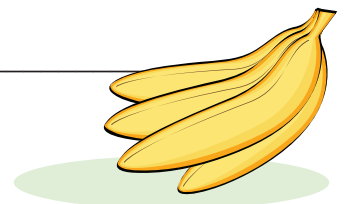
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# Hungry for Math



Use what you know about calculating percentages to solve the following word problems. Be sure to show your work and include the \$ sign in your final answers. On this page, assume that the sales tax is already included in each price.

1. Max went to the local farmer's market to buy some fresh produce. He bought bananas for 30 percent off \$3.00. He also bought a half dozen apples for 40 percent off \$2.00. How much did he spend? \_\_\_\_\_
2. John went shopping for his mom's birthday. He purchased a pair of gloves for \$5.00, a scarf for \$4.00, and a knit hat for \$7.00. When he got to the register, he used a 20 percent off coupon. How much did he spend? \_\_\_\_\_
3. Michelle went to the corner deli. She bought her sister a hot dog for \$3.25, her brother a hamburger for \$4.20, and a vegetable stir fry for herself for \$5.50. She also bought three large sodas for \$1.50 each, but the sodas were 50 percent off. How much did she spend? \_\_\_\_\_
4. Shannon went to the bookstore. She bought a book for \$7.99, a magazine for \$4.25, and a bookmark for \$1.99. She also received 15 percent off of her entire purchase. She handed the cashier a \$20 bill. How much did she spend and how much change did she get back?  
\_\_\_\_\_



# Let's Go Shopping!

Each of these items is on sale, but the percentage off is different for each one. Find the sale price. On this page, ignore sales tax.



Pearl necklace:  
\$100  
**35% off!**

\_\_\_\_\_



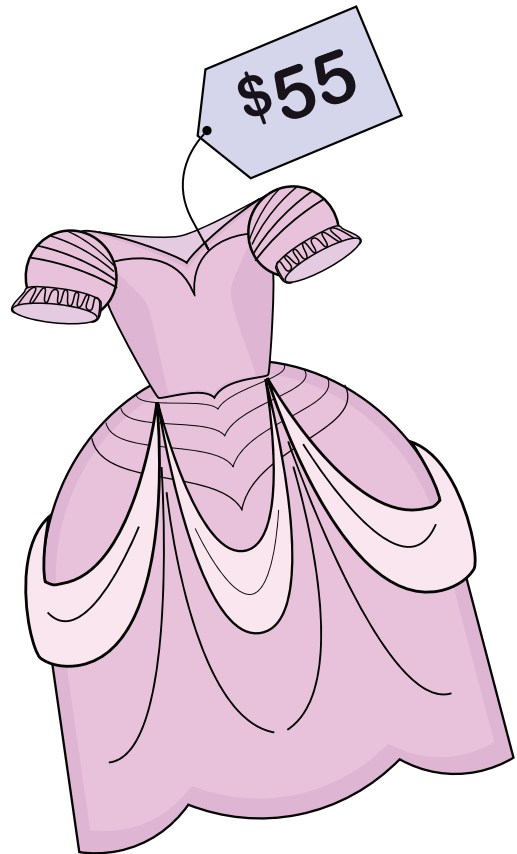
Earrings:  
\$150  
**60% off!**

\_\_\_\_\_



High heeled shoes:  
\$80  
**40% off!**

\_\_\_\_\_



Dressy dress:  
\$55  
**10% off!**

\_\_\_\_\_



Fancy purse:  
\$250  
**30% off!**

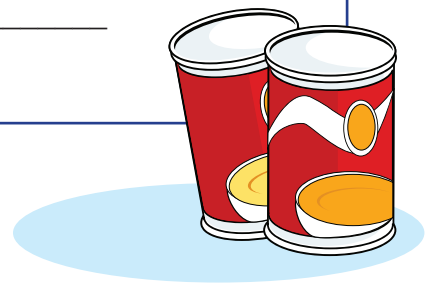
\_\_\_\_\_

# Tax-Free



In the United States most foods are not taxed. Therefore, when you calculate the cost of foods, you don't need to worry about adding any sales tax. Find the total price of each of the foods below by multiplying the price per item by the number of items.

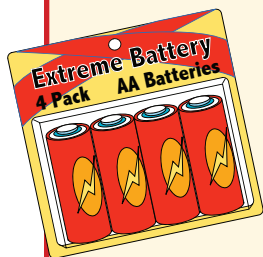
1. 5 boxes of graham crackers at \$3.49 per box: \_\_\_\_\_
2. 4 quarts of milk at \$1.49 per quart: \_\_\_\_\_
3. 8 cans of soup at \$3.11 per can: \_\_\_\_\_
4. 12 energy bars at \$2.29 per bar: \_\_\_\_\_
5. 3 dozen eggs at \$3.79 per dozen: \_\_\_\_\_



# More **BANG** for your buck

Smart shoppers always look for the lowest price for the items they want to purchase. Most supermarkets have many different brands that sell similar products. You might like a certain brand, or you might think that it doesn't matter which one you buy; they're all the same! So, how do you know which one to buy, especially when they all come in packages with different amounts? Which one is the best deal for your money?

You can save a lot of money when you are able to accurately compare the price per item. To find the price per item, or "per count," divide the total amount by the number of items in the package. This will ultimately help you find the best price when you shop. The price per count is also called the item's "unit cost."



## Example:

Crystal is going on a camping trip this weekend. She needs to buy at least two AA batteries for her flashlight. ExtremeBattery batteries come in packages of 4 batteries that cost \$4.99 each. BatteryBright sells its batteries in a pack of 6 for \$5.79. Which is the better deal?



**Step 1: Determine the cost of each ExtremeBattery battery by dividing the price by the total number of batteries per package. Remember to always round final answers up to the nearest cent!**

$$\$4.99 \div 4 = \$1.25 \text{ per battery}$$

**Step 2: Determine the cost of each BatteryBright battery in the same way.**

$$\$5.79 \div 6 = \$0.97 \text{ per battery}$$

**Step 3: Compare the price per battery. The BatteryBright battery has a lower price per battery.**

Sometimes, even when you have to pay more up front, you get a better deal. You, the consumer, have to decide if paying more at the time of purchase is worth it to you in the end. With a product like batteries that last a long time, it might be better for you to purchase more of them at a lower price than spending less in the moment of purchase.



Crystal wants to get the best price on the other items she needs for her camping trip. To help her make the best choices for her needs, determine the unit cost of each brand and decide which brand gives her the best value for her money. Round to the nearest cent.

One 96 oz. bag of Yummie marshmallows for \$3.99

\_\_\_\_\_

One 72 oz. bag of Puffy marshmallows for \$3.50

\_\_\_\_\_

A 6-pack of soda for \$4.59

\_\_\_\_\_

A 12-pack of soda for \$8.00

\_\_\_\_\_

A 4-pack of SpeedyLight boxes of matches for \$2.99

\_\_\_\_\_

A 6-pack of MagicMatch boxes of matches for \$5.00

\_\_\_\_\_

One dozen hot dogs for \$4.49

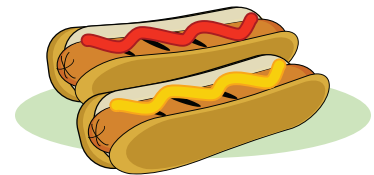
\_\_\_\_\_

An 8-pack of hot dogs for \$3.35

\_\_\_\_\_

If Crystal buys one of each of the four product types above, each at the best value for her money, what will be the total cost of all four items?

\_\_\_\_\_



# Buying in Bulk

Another way that people save money is by “buying in bulk,” or buying large quantities of the products they use the most. As seen on the previous page, you can often save money when you buy more of the same item.

Help the Maximizer family decide where to buy the items they most need for their family of eight. Find the cost of the same amount of products at each store. Compare the prices at each store when the Maximizers buy the product in bulk at LessCost Superstore vs. the price they would pay at a typical supermarket, SW Supermarket.

To decide which store has the better value, find the unit price for each of these items. Round up to the nearest cent.

## LessCost SuperStore



One 20-pack of soap  
at \$5.99

---



Two 40-oz bottles of shampoo  
at \$8.99 per bottle

---



One box of 500 sandwich  
bags for \$11.85

---



Three boxes of 20 fruit  
roll-ups for \$6.99 per box

---

## SW Supermarket



Four 5-packs of soap  
at \$1.09 each

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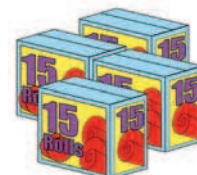
Four 20-oz bottles of shampoo  
at \$5.79 per bottle

---



Five boxes of 100 sandwich  
bags for \$2.95 each

---



Four boxes of 15 fruit roll-ups  
at \$3.25 each

---

## What do YOU think?

Do you think it's more important to pay the lowest price per item, or is it more important to get the brand you like? Explain your answer.

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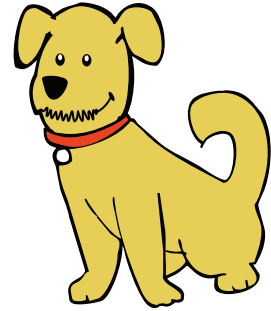
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# It All Adds Up!

Let's put all your consumer math skills to the test!

Each month, Susie stocks up on pet supplies for her dog, Barksalot. See if you can calculate Susie's monthly expenses for June, July, August, and September. Keep your work organized in the space below each problem.



1. In June, Susie buys a dozen cans of Dog's Dinner dog food at \$1.89 per can. She also buys two bags of 'Dem Bones dental chews that each cost \$12.69, and a new toy for \$10.25. She pays sales tax at a rate of 7.25%. What is her total cost for the month of June?

2. In July, the weather is especially hot, so Susie buys a doggie sprinkler toy for \$39.95. Barksalot also needs a new collar. The collar costs \$8.00. She buys another dozen cans of Dog's Dinner dog food, as well as a new bottle of flea shampoo for \$9.99. No prices have changed since June, and the sales tax remains the same. What is the total amount of her expenses in July?

3. In August, Barksalot needs a haircut. A trip for Barksalot to go to Perfect Pet's doggie day spa costs Susie \$79.50. Susie also decides to treat her pooch to a big, tasty bone for \$10.50. She buys another dozen cans of Dog's Dinner dog food, only this month, the cans are on sale for 20 percent off the regular price of \$1.89 per can. Given that the sales tax rate has stayed the same, how much does Susie spend on pet expenses in August?

4. In September, it's time for Barksalot to get his annual checkup at the vet. Barksalot needs to get his teeth brushed for \$50, a rabies booster vaccination for \$49, and an anti-flea treatment for \$18. Susie has a coupon that gives her a discount of 15 percent off the vaccination. There's no sales tax. What will be the total bill for Barksalot's visit to the vet?

# Income and Expense

Income is money that people earn and add to their bank accounts, and expense is money they take out of their accounts to spend. Help County Bank's budget advisor, Mrs. Trusty, give financial advice to her customers by calculating their incomes and expenses below.



1. Mr. Peabody earns \$1,500 each week and his wife earns \$750. Each week, they need to set aside \$200 for food, \$75 for gas, \$650 for the mortgage, and \$350 for savings. How much money will they have left each week?

Total income: \_\_\_\_\_

Total expense: \_\_\_\_\_

Remaining amount: \_\_\_\_\_

2. Dylan is going to school and working two part-time jobs. During the month, he works 20 hours for \$9.25 per hour at the grocery and 15 hours for \$11.50 per hour at Stellar Pizza Parlor. For all his hard work his mom gives him a monthly allowance of \$150. Dylan is responsible for his \$35 cell phone bill, \$50 gas bill, and \$200 car payment. Can he still save \$200 for college? If so, does he have \$50 to spend while hanging out with friends?

Total income: \_\_\_\_\_

Total expense: \_\_\_\_\_

Can he still save \$200 for college? \_\_\_\_\_

If so, does he have \$50 to hang out with friends? \_\_\_\_\_



# Can You Afford It?

Next summer, you are going to try to earn extra money each month to buy the things you want. Decide whether or not you can afford each of the things you want each month, depending on your income and expenses.

In June, you earn \$85 from babysitting, and get \$50 in birthday money. If you also get \$2 every time you walk your neighbor's dog, Barksalot, and you walk the dog 10 times in June, how much is your total income for the month of June? \_\_\_\_\_

Before you buy anything, your parents want you to put away 20 percent of your monthly income in a savings account for college. How much do you have to put in your savings account this month? \_\_\_\_\_ How much do you have left? \_\_\_\_\_

If you spend \$35, including tax of 8 percent, on a new swimsuit at the beginning of June, how much income do you have left? \_\_\_\_\_

To go along with your new swimsuit, you'd like to buy a sunhat. The hat costs \$24 plus 8 percent tax. How much income do you have left? \_\_\_\_\_

At the end of the month, your friends invite you to a concert. The tickets cost \$39.50 plus a \$12 service charge. Can you afford it? \_\_\_\_\_



In July, you earn \$66 from babysitting, and you walk Barksalot 14 times. Your family has a garage sale where you make \$18 by selling your old snowboarding boots. What is your income in July? \_\_\_\_\_

How much money do you put into your college savings account? \_\_\_\_\_

How much do you have left? \_\_\_\_\_

You wore your new swimsuit and sun hat to an outing on the beach with your friends. You bought a sandwich for \$5.99 and a drink for \$1.99. There was no sales tax. How much money do you have left? \_\_\_\_\_

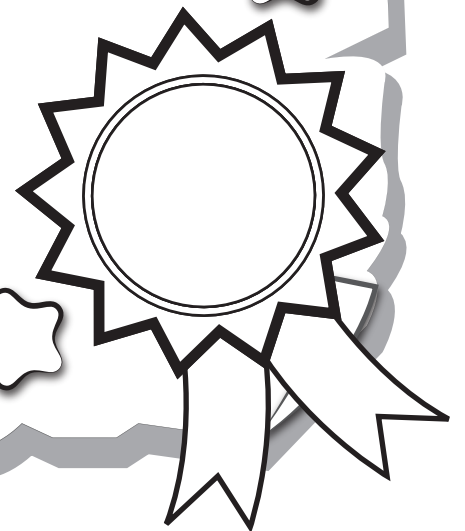
For your mom's birthday in August, you want to buy her a heart necklace. It costs \$59.99 plus 10% sales tax. Can you afford it? \_\_\_\_\_



Great job!

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is an Education.com math superstar



# Answer Sheets

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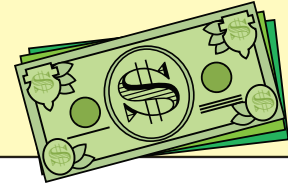
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Income and Expense  
Can You Afford It?

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# Answer Sheet

Fill in the blanks using the terms from the previous page. No peeking!



1. **consumers** are people who buy products.
2. People and companies who make and sell goods and services are **producers**.
3. A **budget** keeps track of exactly how much money is coming in and exactly how much money is going out.
4. **sales tax** is added to the listed price of consumer goods.
5. When consumers want a lot of a particular product, **demand** increases.
6. Producers control the number of products they sell, also called the **supply**.
7. A **bank** is a place where money changes hands. It is supposed to be a secure place that will keep your money safe.
8. **economics** is the study of the transfer of money and the production and consumption of products.



9. When someone owes money, the amount owed is called **debt**.

10. When people get paid for helping others, those people are providing **services**.

# Answer Sheet

Answer these questions about the history of American money.

1. Where was the first U.S. Mint? Philadelphia, Pennsylvania

2. What was Salmon P. Chase's position in the U.S. government when he appeared on the \$1 bill? Treasury secretary

3. What was the major difference between the original U.S. Mint and the BEP? The U.S. Mint produces coins. The BEP is the single producer of paper bills.

In 1792, coins were practically made by hand. It took coiners three years to produce the first million coins. Today, it takes 22.2 hours to produce the same number of coins.

4. What was the official name for "greenbacks" in 1861? Demand notes

5. In what year did the U.S. Mint start making its "America the Beautiful Quarters"? 2010

Before paper money, Americans traded animal skins, such as those from deer and elk bucks. This is why dollars are sometimes called "bucks."

6. If you could create a new denomination in U.S. currency, what would be the amount? Whose picture would you put on your new currency, and why?

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# Answer Sheet

Calculate the actual costs for the following items at a tax rate of 8.2 percent. Show your work.



Board Game \$12.98

Video Game \$31.38

Cell Phone \$215.32

Baseball Cap \$38.94

Movie \$24.83

# Answer Sheet

Now try calculating the total cost of items at different tax rates:



1. An art set has a price tag of \$14.99 at a tax rate of 6.25%. What is the total cost of the art set?

**\$15.93**



2. The price of a baseball bat is \$39.99. At a 7% tax rate, how much does the bat cost?

**\$42.79**



3. A necklace is priced at \$25.99. At a tax rate of 9.5%, what is the total cost of the necklace?

**\$28.46**



4. You are buying a pair of inline skates for \$135.50 and a helmet for \$55.00. If the store charges a tax rate of 8.25%, what will be the total cost of the skates and the helmet?

**\$206.22**

# Answer Sheet

## Winter Sale

With some searching and patience, many consumers find discounted prices or “sales” when they shop. For example, a raincoat may cost \$30, but if there’s a sale and all items are 50 percent off the original price, you can buy the raincoat for \$15!

To calculate the price of an item that is discounted, multiply the original price by the percentage off. Divide the product by 100, and subtract the quotient from the original price.

**Step 1: Multiply listed price by the percentage off.**

$$\$30 \times 50 = \$1,500$$

**Step 2: Divide by 100.**

$$\$1,500 \div 100 = \$15$$

**Step 3: Subtract from the original price.**

$$\$30 - \$15 = \$15$$

**Find the sale price of these items.  
All items are 50 percent off!**



Mittens

**\$6**

Ice Skates

**\$85**

Scarf

**\$7.50**

# Answer Sheet

On the previous page, you found the sale price of certain items when they were sold at 50 percent off, but you didn't have to add sales tax. If the tax rate is 7.25 percent, how much will each item cost?



Raincoat \$16.09

Mittens \$6.44

Ice Skates \$91.16

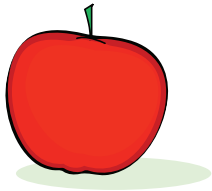
Scarf \$8.04

If you wanted to buy all these items together, how much would it cost?

\$121.73

# Answer Sheet

## Hungry for Math



Use what you know about calculating percentages to solve the following word problems. Be sure to show your work and include the \$ sign in your final answers. On this page, assume that the sales tax is already included in each price.

1. Max went to the local farmer's market to buy some fresh produce. He bought bananas for 30 percent off \$3.00. He also bought a half dozen apples for 40 percent off \$2.00. How much did he spend? **\$3.30**

2. John went shopping for his mom's birthday. He purchased a pair of gloves for \$5.00, a scarf for \$4.00, and a knit hat for \$7.00. When he got to the register, he used a 20 percent off coupon. How much did he spend? **\$12.80**

3. Michelle went to the corner deli. She bought her sister a hot dog for \$3.25, her brother a hamburger for \$4.20, and a vegetable stir fry sub for herself for \$5.50. She also bought three large sodas for \$1.50 each, but the sodas were 50 percent off. How much did she spend? **\$15.20**

4. Shannon went to the bookstore. She bought a book for \$7.99, a magazine for \$4.25, and a bookmark for \$1.99. Her purchase was 15 percent off. She handed the cashier a \$20 bill. How much did she spend and how much change did she get back?

**She spent \$12.10. She got \$7.90 back.**



# Answer Sheet

## Let's Go Shopping!

Each of these items is on sale, but the percentage off is different for each one. Find the sale price. On this page, ignore sales tax.



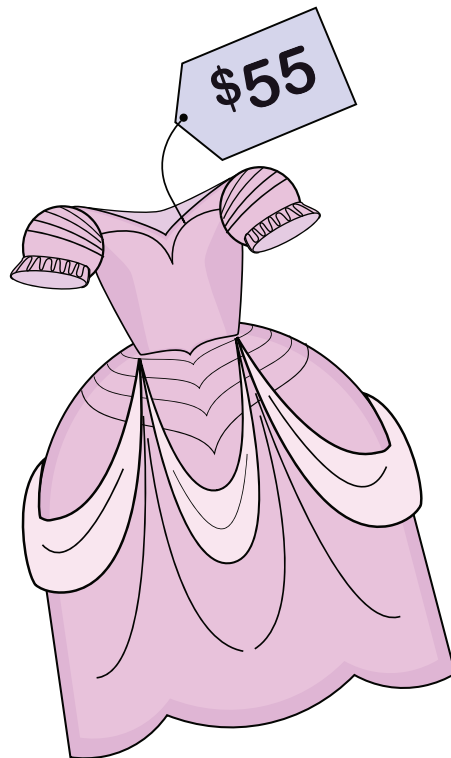
Pearl necklace:  
\$100  
**35% off!**  
          
**\$65**



Earrings:  
\$150  
**60% off!**  
          
**\$60**



High heeled shoes:  
\$80  
**40% off!**  
          
**\$48**



Dressy dress:  
\$55  
**10% off!**  
          
**\$49.50**



Fancy purse:  
\$250  
**30% off!**  
          
**\$175**

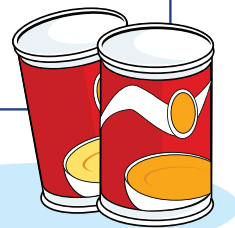
# Answer Sheet

## Tax-Free



In the United States, most foods are not taxed. Therefore, when you calculate the cost of foods, you don't need to worry about adding any sales tax. Find the total price of each of the foods by multiplying the price per item by the number of items.

1. 5 boxes of graham crackers at \$3.49 per box: **\$17.45**
2. 4 quarts of milk at \$1.49 per quart: **\$5.96**
3. 8 cans of soup at \$3.11 per can: **\$24.88**
4. 12 energy bars at \$2.29 per bar: **\$27.48**
5. 3 dozen eggs at \$3.79 per dozen: **\$11.37**



# Answer Sheet



Crystal wants to get the best price on the other items she needs for her camping trip. To help her make the best choices for her needs, determine the unit cost of each brand and decide which brand gives her the best value for her money. Round to the nearest cent.

One 96 oz. bag of Yummie marshmallows for \$3.99

**\$0.04 per ounce**

One 72 oz. bag of Puffy marshmallows for \$3.50

**\$0.05 per ounce**

A 6-pack of soda for \$4.59

**\$0.77 per can**

A 12-pack of soda for \$8.00

**\$0.67 per can**

A 4-pack of SpeedyLight boxes of matches for \$2.99

**\$0.75 per box of matches**

A 6-pack of MagicMatch boxes of matches for \$5.00

**\$0.83 per box of matches**

One dozen hot dogs for \$4.49

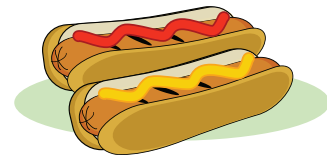
**\$0.37 per hot dog**

An 8-pack of hot dogs for \$3.35

**\$0.42 per hot dog**

If Crystal buys one of each of the four product types above, each at the best value for her money, what will be the total cost of all four items?

**\$19.47**



# Answer Sheet

## Buying in Bulk

Another way that people save money is by “buying in bulk,” or buying large quantities of the products they use the most. As seen on the previous page, you can often save money when you buy more of the same item.

Help the Maximizer family decide where to buy the items they most need for their family of eight. Find the cost of the same amount of products at each store. Compare the prices at each store when the Maximizers buy the product in bulk at LessCost Superstore vs. the price they would pay at a typical supermarket, SW Supermarket.

To decide which store has the better value, find the unit price for each of these items. Round up to the nearest cent.

### LessCost SuperStore



One 20-pack of soap  
at \$5.99

**\$0.30 per bar of soap**



Two 40-oz bottles of shampoo  
at \$8.99 per bottle

**\$0.22 per ounce**



One box of 500 sandwich  
bags for \$11.85

**\$0.02 per bag**



Three boxes of 20 fruit  
roll-ups for \$6.99 per box

**\$0.35 per fruit roll-up**

### SW Supermarket

Four 5-packs of soap  
at \$1.09 each

**\$0.22 per bar of soap**

Four 20-oz bottles of shampoo  
at \$5.79 per bottle

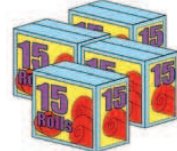
**\$0.29 per ounce**

Five boxes of 100 sandwich  
bags for \$2.95 each

**\$0.03 per bag**

Four boxes of 15 fruit roll-ups  
at \$3.25 each

**\$0.22 per fruit roll-up**



What do YOU think?

Do you think it's more important to pay the lowest price per item, or is it more important to get the brand you like? Explain your answer.

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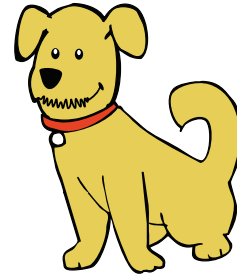
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# Answer Sheet

## It All Adds Up!

Let's put all your consumer math skills to the test!

Each month, Susie stocks up on pet supplies for her dog, Barksalot. See if you can calculate Susie's monthly expenses for June, July, August, and September. Keep your work organized in the space below each problem.



1. In June, Susie buys a dozen cans of Dog's Dinner dog food at \$1.89 per can. She also buys two bags of 'Dem Bones dental chews that each cost \$12.69, and a new toy for \$10.25. She pays sales tax at a rate of 7.25%. What is her total cost for the month of June?

$$12 \times \$1.89 = \$22.68$$

$$2 \times \$12.69 = \$25.38$$

$$1 \times \$10.25 = \$10.25$$

$$\$22.68 + \$25.38 + \$10.25 = \$58.31$$

$$\$58.31 \times 7.25 = \$422.75$$

$$\$422.75 \div 100 = \$4.23$$

$$\$4.23 + \$58.31 = \$62.54$$

2. In July, the weather is especially hot, so Susie buys a doggie sprinkler toy for \$39.95. Barksalot also needs a new collar. The collar costs \$8.00. She buys another dozen cans of Dog's Dinner dog food, as well as a new bottle of flea shampoo for \$9.99. No prices have changed since June, and the sales tax remains the same. What is the total amount of her expenses in July?

$$1 \times \$39.95 = \$39.95$$

$$1 \times \$8.00 = \$8.00$$

$$12 \times \$1.89 = \$22.68$$

$$1 \times \$9.99 = \$9.99$$

$$\$39.95 + \$8.00 + \$22.68 + \$9.99 = \$80.62$$

$$\$80.62 \times 7.25 = \$584.50$$

$$\$584.50 \div 100 = \$5.85$$

$$\$5.85 + \$80.62 = \$86.47$$

# Answer Sheet

3. In August, Barksalot needs a haircut. A trip for Barksalot to go to Perfect Pet's doggie day spa costs Susie \$79.50. Susie also decides to treat her pooch to a big, tasty bone for \$10.50. She buys another dozen cans of Dog's Dinner dog food, only this month, the cans are on sale for 20 percent off the regular price of \$1.89 per can. Given that the sales tax rate has stayed the same, how much does Susie spend on pet expenses in August?

**First, calculate price of dog food:**

$$12 \times \$1.89 = \$22.68$$

$$\$22.68 \times 20 = \$453.60$$

$$\$453.60 \div 100 = \$4.54$$

$$\$22.68 - \$4.54 = \$18.14$$

$$\$79.50 + \$10.50 + \$18.14 = \$108.14$$

$$\$108.14 \times 7.25 = \$784.02$$

$$\$784.02 \div 100 = \$7.84$$

$$\$108.14 + \$7.84 = \$115.98$$

4. In September, it's time for Barksalot to get his annual checkup at the vet. Barksalot needs to get his teeth brushed for \$50, a rabies booster vaccination for \$49, and an anti-flea treatment for \$18. Susie has a coupon that gives her a discount of 15 percent off the vaccination. There's no sales tax. What will be the total bill for Barksalot's visit to the vet?

**First, calculate the price of the vaccination:**

$$\$49 \times 15 = \$735$$

$$\$735 \div 100 = \$7.35$$

$$\$49 - \$7.35 = \$41.65$$

$$\$50 + \$41.65 + \$18 = \$109.65$$

# Answer Sheet

## Income and Expense

Income is money that people earn and add to their bank accounts, and expense is money they take out of their accounts to spend. Help County Bank's budget advisor, Mrs. Trusty, give financial advice to her customers by calculating their incomes and expenses below.



1. Mr. Peabody earns \$1,500 each week and his wife earns \$750. Each week, they need to set aside \$200 for food, \$75 for gas, \$650 for the mortgage, and \$350 for savings. How much money will they have left each week?

Total income: **\$2250**

Total expense: **\$1275**

Remaining amount: **\$975**

2. Dylan is going to school and working two part-time jobs. During the month, he works 20 hours for \$9.25 per hour at the grocery and 15 hours for \$11.50 per hour at Stellar Pizza Parlor. For all his hard work his mom gives him a monthly allowance of \$150. Dylan is responsible for his \$35 cell phone bill, \$50 gas bill, and \$200 car payment. Can he still save \$200 for college? If so, does he have \$50 to spend while hanging out with friends?

Total income: **\$507.50**

Total expense: **\$285**

Can he still save \$200 for college? **Yes!**

If so, does he have \$50 to hang out with friends? **No**



# Answer Sheet

## Can You Afford It?

Next summer, you are going to try to earn extra money each month to buy the things you want. Decide whether or not you can afford each of the things you want each month, depending on your income and expenses.

In June, you earn \$85 from babysitting, and get \$50 in birthday money. If you also get \$2 every time you walk your neighbor's dog, Barksalot, and you walk the dog 10 times in June, how much is your total income for the month of June? **\$155**

Before you buy anything, your parents want you to put away 20 percent of your monthly income in a savings account for college. How much do you have to put in your savings account this month? **\$31** How much do you have left? **\$124**

If you spend \$35, including tax of 8 percent, on a new swimsuit at the beginning of June, how much income do you have left?  **$\$124 - \$37.80 = \$86.20$**

To go along with your new swimsuit, you'd like to buy a sunhat. The hat costs \$24 plus 8 percent tax. How much income do you have left?  **$\$86.20 - \$25.92 = \$60.28$**

At the end of the month, your friends invite you to a concert. The tickets cost \$39.50 plus a \$12 service charge. Can you afford it? **Yes!**



# Answer Sheet

In July, you earn \$66 from babysitting, and you walk Barksalot 14 times. Your family has a garage sale where you make \$18 by selling your old snowboarding boots. What is your income in July? **\$112**\_\_\_\_\_

How much money do you put into your college savings account? **\$22.40**\_\_\_\_\_

How much do you have left? **\$89.60**\_\_\_\_\_

You wore your new swimsuit and sun hat to an outing on the beach with your friends. You bought a sandwich for \$5.99 and a drink for \$1.99. There was no sales tax. How much money do you have left? **\$81.62**\_\_\_\_\_

For your mom's birthday in August, you want to buy her a heart necklace. It costs \$59.99 plus 10% sales tax. Can you afford it? **Yes!**\_\_\_\_\_

