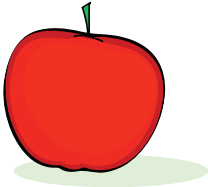


Answer Sheet

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.

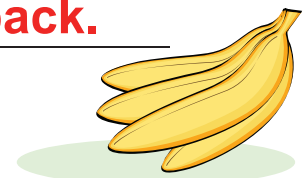
1. Max went to the local farmer's market to buy some fresh produce. He bought bananas for 30 percent off \$3.00. He also bought a half dozen apples for 40 percent off \$2.00. How much did he spend? **\$3.30**

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.



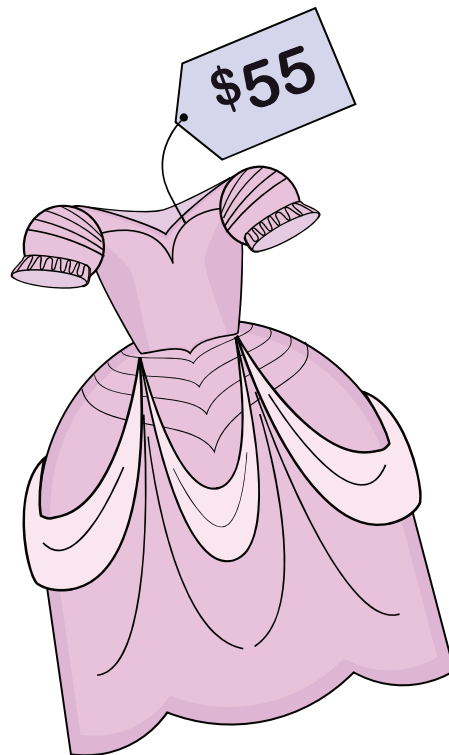
Pearl necklace:
\$100
35% off!
\$65



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

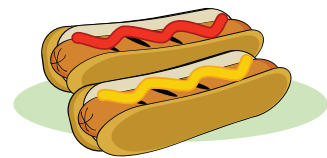
\$0.37 per hot dog

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







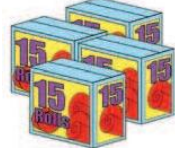
Answer Sheet

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	SW Supermarket
 <p>One 20-pack of soap at \$5.99</p> <p><u>\$0.30 per bar of soap</u></p>	 <p>Four 5-packs of soap at \$1.09 each</p> <p><u>\$0.22 per bar of soap</u></p>
 <p>Two 40-oz bottles of shampoo at \$8.99 per bottle</p> <p><u>\$0.22 per ounce</u></p>	 <p>Four 20-oz bottles of shampoo at \$5.79 per bottle</p> <p><u>\$0.29 per ounce</u></p>
 <p>One box of 500 sandwich bags for \$11.85</p> <p><u>\$0.02 per bag</u></p>	 <p>Five boxes of 100 sandwich bags for \$2.95 each</p> <p><u>\$0.03 per bag</u></p>
 <p>Three boxes of 20 fruit roll-ups for \$6.99 per box</p> <p><u>\$0.35 per fruit roll-up</u></p>	 <p>Four boxes of 15 fruit roll-ups at \$3.25 each</p> <p><u>\$0.22 per fruit roll-up</u></p>

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.

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!**_____

