



Consumer Mathematics

Workbook

Table of Contents

To the Student vii

Unit 1: Dollars and Sense

Activity 1
More or Less 1

Activity 2
Money Matching 2

Activity 3
The Right Form 3

Activity 4
More Money? 4

Activity 5
Counting Cash 5

Activity 6
Found Money 6

Activity 7
Adding It Up 7

Activity 8
Dollar Store 8

Activity 9
Coin Combinations 9

Activity 10
Money in My Wallet 10

Activity 11
What's the Problem? 11

Activity 12
Take It Away 12

Activity 13
X-act Change 13

Activity 14
Plus Tax 14

Activity 15
Multiply Your Money 15

Activity 16
How Much? 16

Activity 17
Penny Division 17

Activity 18
Comparing Coins 18

Activity 19
Change for a Dollar 19

Activity 20
Getting Back Change 20

Activity 21
Money, Money 21

Activity 22
Writing Money 22

Activity 23
Coupon Cutting 23

Activity 24
Play Ball 24

Activity 25
Money Problems 25

Activity 26
Dollars for Donuts 26

Activity 27
It's a Bargain! 27

Activity 28
Dividing Money 28

Activity 29
Figuring Change 29

Activity 30
The Same Only Different 30

Activity 31
Match Money 31

Activity 32
Ready to Rebate 32

Activity 33
Estimating Sleep 33

Activity 34
Minus Money 34

Activity 35
Multiple Amounts 35

Activity 36
How Much for One? 36

Activity 37
How Much? 37

Table of Contents, *continued*

| | | |
|---|------------------------------------|--|
| Activity 38 | Activity 56 | |
| How Much Change? 38 | Prices to Ship 56 | |
| Unit 2: Spending Wisely | | |
| Activity 39 | Activity 57 | |
| Nutrition Math 39 | Carnival Budget 57 | |
| Activity 40 | Activity 58 | |
| Estimates and Guarantees 40 | Dividing Income 58 | |
| Activity 41 | Activity 59 | |
| Contracts 41 | Deductions 59 | |
| Activity 42 | Activity 60 | |
| Consumer Sites 42 | Income Levels 60 | |
| Activity 43 | Activity 61 | |
| Generic Versus Brand-Name 43 | Average Expenses 61 | |
| Activity 44 | Activity 62 | |
| Discounts and Sale Prices 44 | Day-to-Day Expenses 62 | |
| Activity 45 | Activity 63 | |
| Discount Percentages 45 | Complete the Budget 63 | |
| Activity 46 | Unit 3: Borrowing Wisely | |
| Finding the Original Price 46 | Activity 64 | |
| Activity 47 | Financing a Car 64 | |
| Find the Discount 47 | Activity 65 | |
| Activity 48 | Types of Loans 65 | |
| Comparing Discounts 48 | Activity 66 | |
| Activity 49 | Annual Interest Rates 66 | |
| Comparing Sale Prices 49 | Activity 67 | |
| Activity 50 | Rolling for Rates 67 | |
| Finding a Better Price 50 | Activity 68 | |
| Activity 51 | Find the Error 68 | |
| Unit Pricing 51 | Activity 69 | |
| Activity 52 | Paying for Education 69 | |
| Coffee Value 52 | Activity 70 | |
| Activity 53 | Installment Loans 70 | |
| Going the Distance 53 | Activity 71 | |
| Activity 54 | Make a Deal 71 | |
| The Long and Short of It 54 | Activity 72 | |
| Activity 55 | Credit Card Debt 72 | |
| Finding the Unit Price 55 | Activity 73 | |
| | Find the Payment 73 | |

Table of Contents, *continued*

| | | | |
|--|----|-----------------------------|----|
| Activity 74 | | Activity 85 | |
| Comparing Loans | 74 | ATM Safety | 85 |
| Activity 75 | | Activity 86 | |
| Down Payment Comparison | 75 | Compound Interest | 86 |
| Activity 76 | | Activity 87 | |
| Earning Points | 76 | Another Balancing Act | 87 |
| Activity 77 | | Activity 88 | |
| Debt Ratios | 77 | Comparing Interest | 88 |
| Activity 78 | | Activity 89 | |
| Reducing Spending | 78 | Compounding Quarterly | 89 |
| Activity 79 | | Activity 90 | |
| Determining the Highest Rate | 79 | Compounding Daily | 90 |
| Activity 80 | | Activity 91 | |
| Types of Bankruptcy | 80 | Ways to Save | 91 |
| Unit 4: Banking, Insurance, and Taxes | | | |
| Activity 81 | | Activity 92 | |
| Writing Checks | 81 | Tax Time | 92 |
| Activity 82 | | Activity 93 | |
| Types of Checks | 82 | Using Tax Tables | 93 |
| Activity 83 | | Activity 94 | |
| Fill in the Register | 83 | Filing a Tax Return | 94 |
| Activity 84 | | Activity 95 | |
| Know Your Checking Account | 84 | Life Insurance | 95 |

**UNIT 2 • ACTIVITY 39****Nutrition Math**

The Nutrition Facts label on products offers important information. It displays the serving size, the number of servings per container, the number of calories per serving, and the daily percentage value of fat, carbohydrates, sugar, salt, and vitamins and minerals. Consumers with special dietary needs, such as people with allergies, should read these labels often.

| Nutrition Facts | |
|---|-----|
| Serving Size 8 fl oz (240 ml) | |
| Servings Per Container 2 | |
| Amount Per Serving | |
| Calories 100 | |
| % Daily Value* | |
| Total Fat 0g | 0% |
| Sodium 10mg | 0% |
| Total Carb 25g | 9% |
| Sugars 23g | |
| Protein 0g | |
| Vitamin C | 25% |
| <small>*Percent Daily Values are based on a 2,000 calorie diet.</small> | |

Read the questions below carefully. Use the nutrition label above from a bottle of juice to help you answer the questions. Write your answer on the line after each question.

1. If you drink one serving of juice, what percentage of your daily value of Vitamin C have you taken in? _____
2. If you drink this entire bottle of juice, how many calories will you have consumed?

3. In grams, how many carbohydrates are in this bottle? _____

Bonus Question:

4. What is another word for salt that is found in the Nutrition Facts part of the label?



**UNIT 2 • ACTIVITY 40****Estimates and Guarantees**

Read the three situations below. Then answer the questions that follow. Write your answer on the lines after each question.

- A. Luana bought a watch from a vendor on the streets of a big city who said that the watch was guaranteed to work. A week later, the watch broke. Luana gave it to a friend, who often bragged about his ability to fix things. The watch showed up in the mail in many more pieces than when she had last seen it.
- B. Marco hired a chiropractor to help stop the pain he felt in his lower back. After taking X rays, the chiropractor offered her opinion about Marco's problem. Then she gave him a written estimate of the cost to fix his back. However, she could not guarantee that the problem would not happen again, especially if Marco continued in his career as a construction worker.
- C. Benjamin wanted to hire a carpenter to fix the rotting window sills on his house. The carpenter said all his work was guaranteed for 5 years. He could give Benjamin a written estimate on the cost of the job after he was sure how much work each window needed.

1. What two mistakes did Luana make regarding the watch?

2. Marco was a little fearful of hiring the chiropractor. Why?

3. Which scenario seems to offer both an estimate and a guarantee? Explain your answer.


UNIT 2 • ACTIVITY 41
Contracts

A contract is typically a written agreement between people. A contract that is a work-for-hire agreement names the people involved in the agreement, their addresses, and the date the agreement begins. It also includes a description of what work is to be done and the date it is to be completed. It may also specify the consequences if the employee does not complete the work, or does not complete the work on time. This agreement guarantees that if the work is done, it will be paid for, and if it is paid for, it will be done.

Read the contract below between Flo's Flowers and Geena Adams. Answer the questions that follow. Write your answers on the lines after the questions.

| Contract Work-For-Hire Agreement | |
|--|---|
| Flo's Flowers 12 Flower Lane Tulipville, New Jersey | Geena Adams 26 Saddle Street Amwell, New Jersey |
| This agreement was made on the 3rd day of August 2004 by and between Flo's Flowers and Geena Adams for the completion and delivery of bridal flowers for a wedding on October 3rd, 2006. If Flo's Flowers does not fulfill any part of the agreement, a refund will be given to Ms. Adams. | |
| Ceremony flowers | \$ 300.00 |
| Bride's flowers | \$ 175.00 |
| Boutonnieres | \$ 85.00 |
| Table flowers | \$ 550.00 |
| Total | \$ 1110.00 |

1. What is the guarantee in the contract?

2. Do you know how much the refund will be for? How could this be stated better?

3. What is the estimated total cost of services? _____



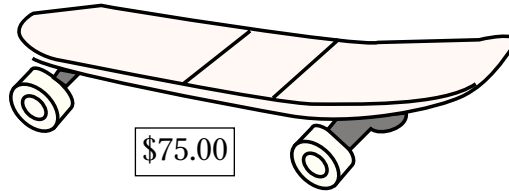
NAME: _____



UNIT 2 • ACTIVITY 48

Comparing Discounts

Work with a partner to fill out this table. Both of you are to find the amount of discount and the sale price of the skateboard shown below. Show all your work and answers in the table. Then use a calculator to check your answers. Compare your answers and discuss how you arrived at the results.



| Discount | Your Discount Amount | Your Sale Price | Partner's Discount Amount | Partner's Sale Price | Calculator's Discount Amount | Calculator's Sale Price |
|------------------|----------------------|-----------------|---------------------------|----------------------|------------------------------|-------------------------|
| 1. $\frac{1}{2}$ | | | | | | |
| 2. $\frac{1}{3}$ | | | | | | |
| 3. $\frac{1}{4}$ | | | | | | |