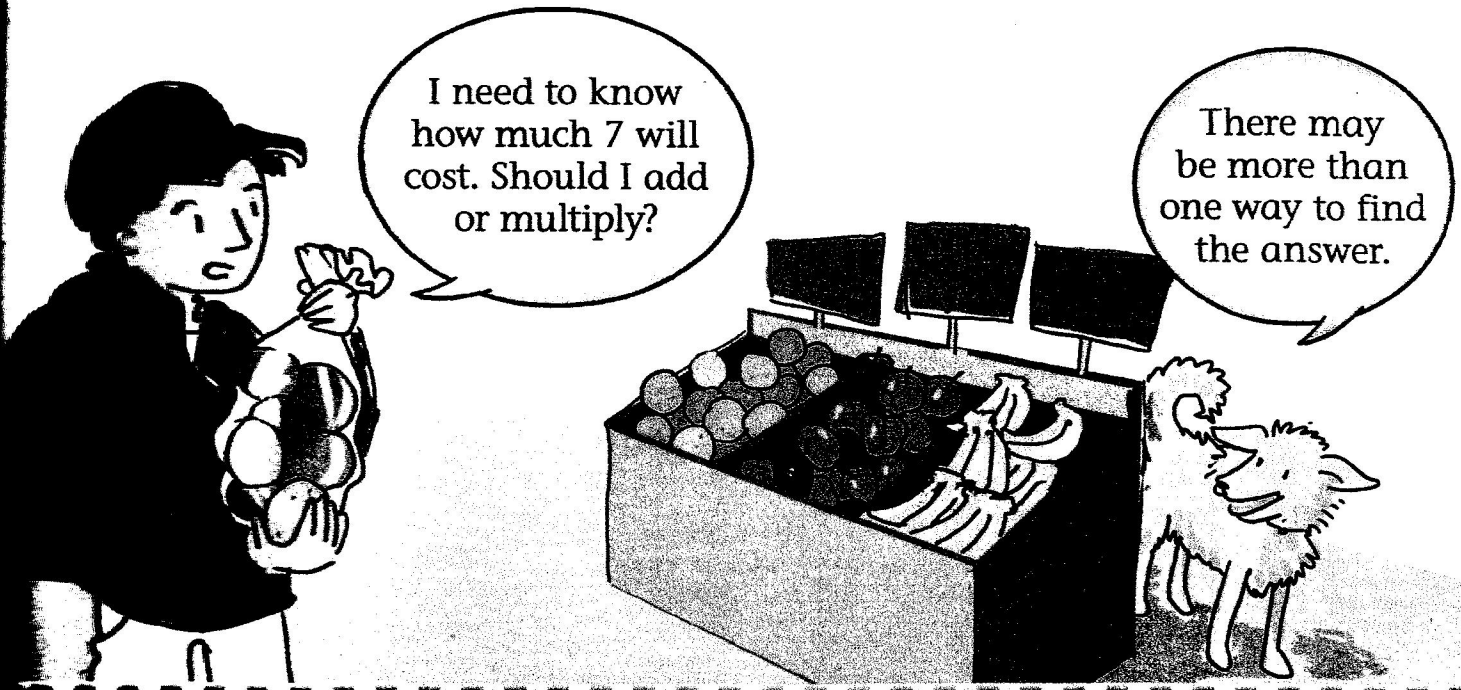


# Real-World Word Problems

Use operations to solve real-world multistep word problems

**Solving real-world math problems often means using more than one operation.**



- 1** Lay out the mats and the cards.
- 2** Read the first word problem on the mats.
- 3** Use two or more operations to solve the problem. Show your work on the response form.
- 4** Find the card that shows the answer and place it in the colored square next to the problem.
- 5** Repeat steps 3 and 4 for each word problem.

**Real-World Word Problems**

1 Roy and his mom went shopping for school clothes. Roy's mom bought him 3 new shirts, 4 pairs of pants, 1 jacket, and 2 pairs of shoes. A new shirt requires sales to charge shoppers 10 cents on the dollar. A new shirt costs \$10. How much did Roy's mom spend on clothes for Roy?

2 Erica was on fire at her last basketball game! She scored half of her team's total points, hitting three 3-pointers, five 2-point shots, and six 1-point free throws. How many total points did Erica's team score in the game?

3 John wanted new wheels for his skateboard, but he didn't have enough money. He talked his brother Jim into lending him \$30.00 and promised to pay Jim on notes 25 cents for every day if he took him to repay the loan. It took John 6 weeks to pay Jim back. How much did John have to pay his brother?

4 Christine wants to know her grade point average (GPA) for the school year. The final grades she received in the six classes were two A's, three B's, and one C. Each A grade counts for 4 points, each B for 3 points, and each C for 2 points. What is Christine's GPA for the year? Round the answer to the hundredths place.

5 Each year, Sports City sells twice as many baseballs as basketballs and one-sixth as many footballs as basketballs. If the store sold 600 footballs last year, how many basketballs did it sell?

6 Kate had her favorite pair of shoes at the skating rink, and her parents told her that they won't pay to replace them. Kate bought some new puggie boots and bought 1/4 quarters, 10 dimes, 30 nickels, and 10 pennies. If the shoes cost \$15.00, and Kate wrote her check a week during chores, how many weeks will it be until she has enough money to buy new shoes?

2      335.25      4      6      2472      \$45.22

1

Erica was on fire at her last basketball game! She scored half of her team's total points, hitting three 3-pointers, five 2-point shots, and six 1-point free throws. How many total points did Erica's team score in the game?

2

Jake wanted new wheels for his skateboard, but he didn't have enough money. He talked his brother Jim into lending him \$30.00 and promised to pay Jim an extra 75 cents for every day it took him to repay the loan. It took Jake a week to pay Jim back. How much did Jake have to pay his brother?

3

Christian wants to know his grade point average (GPA) for the school year. The final grades he received in his six classes were two As, three Bs, and one C. Each A grade counts for 4 points, each B for 3 points, and each C for 2 points. What is Christian's GPA for the year? *(Round the answer to the hundredths place.)*

4

Each year, Sports City sells twice as many baseballs as basketballs and one-sixth as many footballs as baseballs. If the store sold 804 footballs last year, how many basketballs did it sell?

5

Kate lost her favorite pair of shoes at the skating rink, and her parents told her that they won't pay to replace them. Kate breaks open her piggy bank and counts out 47 quarters, 13 dimes, 30 nickels, and 92 pennies. If the shoes cost \$45.00, and Kate earns five dollars a week doing chores, how many weeks will it be until she has enough money to buy new shoes?

# Real-World Word Problems

7 Ray and his mom went shopping for school clothes. Ray's mom bought him 9 new shirts, 4 pairs of jeans, 1 jacket, and 2 pairs of shoes. A new state law requires stores to charge shoppers 10 cents a bag. If each shirt took up  $\frac{1}{6}$  of the space in a bag, each pair of jeans took up  $\frac{1}{3}$ , the jacket took up  $\frac{2}{3}$ , and each pair of shoes  $\frac{3}{4}$ , how much did Ray's mom have to pay for bags?

8 Allison is selling her bike for \$85.00, but she had to buy new tires for it first. The tires cost \$14.89 each. The bike shop charged \$5.25 to put on both tires but gave Allison a \$3.50 recycling credit for the old ones. If Allison gets  $\frac{9}{10}$  of her asking price, how much money will she clear after deducting the final cost of the tires?

9 Tim is making a scale model of the doghouse he wants to build. The model will be  $\frac{1}{3}$  the size of the real doghouse. If the base of the real doghouse measures 6 feet long and 4 feet wide, how many square inches will the area be for the base of the scale model?

10 Brandon is planning his Sunday. He estimates that cleaning his room will take  $\frac{1}{8}$  of the day, his bike ride will take  $\frac{1}{8}$ , each meal (breakfast, lunch, and dinner) will take  $\frac{1}{10}$ , and his homework will take  $\frac{1}{5}$ . If he gets up at 8:00 a.m. and goes to bed at 10:00 p.m., about how many hours will he have left to play video games?

## Challenge Problem

11 Andy rides his bike to school. The ride is 2 miles by sidewalk or  $2\frac{1}{2}$  miles if he takes the dirt path through the field. On the sidewalk, Andy loses  $\frac{1}{8}$  of the air in his tires every 6 miles. On the dirt path, he loses  $\frac{1}{10}$  every 5 miles. If Andy rides his bike only to and from school and takes the dirt path on Mondays and Fridays and the sidewalk the other three days, after how many days will his tires be flat?

2	3	3.17	3.16	3.20
$3\frac{1}{2}$	4	<u>6</u>	<u>9</u>	10
11	12	25	50	75
80	268	384	1,152	2,120
2,412	\$0.40	\$0.50	\$0.60	\$35.25
\$35.75	\$37.50	\$44.97	\$45.22	\$46.47

Name \_\_\_\_\_

Skill: Use the four operations to solve real-world, multistep word problems

# Real-World Word Problems

Show your work to solve each problem on the mats. Then write the answer on the line.

1

Answer: \_\_\_\_\_ points

2

Answer: \$ \_\_\_\_\_

3

Answer: \_\_\_\_\_ GPA

4

Answer: \_\_\_\_\_ basketballs

5

Answer: \_\_\_\_\_ weeks

6

Answer: \$ \_\_\_\_\_

7

Answer: \$ \_\_\_\_\_

8

Answer: \_\_\_\_\_ square inches

9

Answer: \_\_\_\_\_ hours

10

**Challenge Problem**

Answer: \_\_\_\_\_ days