#### **Make Change**

**Essential Question** How can you make change by counting on?

## UNLOCK the Problem REAL WORLD



Justin buys a leash for his dog for \$3.59. He pays with a \$5 bill. How much change should he get?

Change is the money you get back if you have paid for an item with coins or bills that have a value greater than the cost of the item.

Activity 1 Make change from \$5.00.

Materials ■ play money

STEP 1 Start with the cost of the item. Count up with coins and bills to the amount paid.

- What is the cost of the leash?
- What is the amount paid?

• Why does Justin get change?



cost of item











\$3.59 → \$3.60 →

amount paid

**STEP 2** Count the value of the bills and coins received.

Math Talk In Step 1, why might you start counting up with 1 penny?





\$1.00 \$1.41

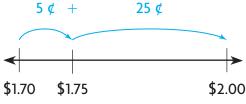
So, Justin should get \_\_\_\_\_ in change.

Activity 2 Make change from \$2.00.

Rose buys a kitten toy for \$1.70. She pays with two \$1 bills. What change should Rose get?

**STEP 1** Use the number line. Start with the cost of the item.

Draw jumps to count up to the amount paid.





$$25 c + 5 c =$$

So, Rose should get in change.



Try This! Make change using different coins.

Count out different coins to make change from \$2.00 for Rose. Draw the coins.

### Share and Show MATH BOARD



1. Count up from \$4.38 to \$5.00. Draw the coins that are missing.







**Math Talk Explain** how you can use a number line to count up from \$4.38 to \$5.00.

\$4.38

Find the amount of change.

- **✓ 2.** Manuel buys a dog collar for \$1.67. He pays with two \$1 bills.
- ✓3. Sandy buys a stuffed animal for \$3.22. She pays with a \$5 bill.

#### On Your Own

#### Find the amount of change.

- **4.** Ben buys a carton of milk for \$1.18. He pays with two \$1 bills.
- 5. Kelly buys a book for \$3.09. She pays with a \$5 bill.
- 6. Isaac buys a package of bird seed for \$4.25. He pays with a \$5 bill.
- 7. Eva buys a key chain for \$2.76. She pays with three \$1 bills.
- 8. Algebra Complete the table.

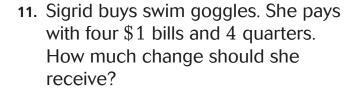
Quarters	1	2	3	4	5	6	7	8
Value	\$0.25	\$0.50					\$1.75	

# Problem Solving REAL WORLD

9. Melissa bought dog treats. She paid with a \$5 bill. She got 2 quarters, 2 dimes, and 3 pennies in change. How much did the dog treats cost?



10. Vijay buys a can of tennis balls. He pays with a \$5 bill. How much change should he receive?



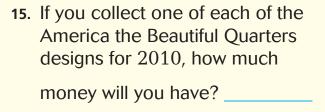
12. Trevor bought a baseball cap. His change was one \$1 bill and 1 penny. How much money did Trevor give the cashier?

- rope for \$3.33. She pays with a \$5 bill. How much is Karen's change? What bills and coins does she get? **Explain** your answer.
- 14. Test Prep Sean buys lunch for \$4.27. He pays with a \$5 bill. How much change should Sean get?
  - **A** \$0.73
  - **B** \$0.75
  - © \$0.81
  - **(D)** \$0.83

### Connect to Social Studies

#### **National Parks**

In 2010, the U.S. Mint began releasing quarters with national parks and other national sites appearing on the reverse side (tails). Five such America the Beautiful Quarters will be released each year through 2021. A national site from each state will be featured. The table shows the five national sites on 2010 quarters.



16. Violet paid the park entrance fee with a \$5 bill. She got 6 quarters in change. What was the entrance



▲ Grand Canyon National Park

#### **2010 America the Beautiful Quarters**

National Site	State		
Hot Springs National Park	Arkansas		
Yellowstone National Park	Wyoming		
Yosemite National Park	California		
Grand Canyon National Park	Arizona		
Mt. Hood National Forest	Oregon		

17. Tim has 8 quarters. He wants to buy a park map for \$2.25. Does Tim have enough money to buy the map? **Explain**.

fee?