

## TRY IT TOGETHER

Write the place value and value of each green digit.

5 0.7

\_\_\_\_\_;

6 2.04

\_\_\_\_\_;

7 12.34

\_\_\_\_\_

8 141.6

\_\_\_\_\_;

## WORK ON YOUR OWN

### Understand Decimals

#### Using Symbols

4.72

Ones	Decimal Point	Tenths	Hundredths
	.	7	2



4.72

4.72

4 ones = 4

7 tenths = 0.7

2 hundredths = 0.02

#### Using Words

Find the decimal point.

Everything to the left of the decimal point names the whole number part.

Everything to the right of the decimal point names the decimal part.

Use the location to name the place value and value of each digit in the number.



# Reading and Writing Decimals

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1 4.75

Ones	Decimal Point	Tenths	Hundredths
	.		

\_\_\_\_\_ ones  
 \_\_\_\_\_ tenths  
 \_\_\_\_\_ hundredths

2 1.6 \_\_\_\_\_ and \_\_\_\_\_ tenths

3 2.54

4 four and thirty-seven hundredths

5 ten and six hundredths

Use a place value chart to read and write decimals.

Write 3.17 using words.

Tens	Ones	Decimal Point	Tenths	Hundredths
		.		

Write twenty-four and five tenths using digits.

Tens	Ones	Decimal Point	Tenths	Hundredths
		.		

**BUILD  
 THE  
 CONCEPT**

## TRY IT TOGETHER

Write each decimal using digits.

6 thirty-four hundredths \_\_\_\_\_

7 four and nine hundredths \_\_\_\_\_

Write each decimal using words.

8 0.27 \_\_\_\_\_

9 3.8 \_\_\_\_\_

## WORK ON YOUR OWN

### Write Decimals Using Words

#### Using Symbols

- Write 7.14 using words.  
seven and

- seven and fourteen

- seven and fourteen  
hundredths

#### Using Words

Write the whole number part and write the word *and* for the decimal point. If there is none, skip to step 2.

Write the decimal part as a whole number.

Write the place value of the last digit in the number.

### Write Decimals Using Digits

#### Using Symbols

- Write *six and nine hundredths* using digits.

6

- 6.

- 6.09

#### Using Words

Write the whole number part. If there is none, write 0.

Write a decimal point for the word *and*.

Write the decimal part to the right of the decimal point. Write the correct number of 0s to show the place value.



# Comparing Decimals

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

- 1 a. 875      862      b. 1,547      1,547      c. 684      1,525
- \_\_\_\_\_
- \_\_\_\_\_

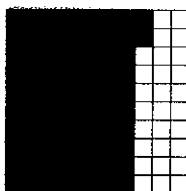
- 2 2.5      2.7
- |   |   |   |
|---|---|---|
| 2 | . | 5 |
| 2 | . | 7 |

- 3 0.26      0.2
- |       |   |       |       |
|-------|---|-------|-------|
| _____ | . | _____ | _____ |
| _____ | . | _____ | 0     |

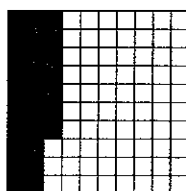
- 4 42.7      4.27
- |       |       |   |       |       |
|-------|-------|---|-------|-------|
| _____ | _____ | . | _____ | _____ |
| _____ | _____ | . | _____ | _____ |

Decimal grids can be used to compare decimals.

Compare 0.72 with 0.27.



0.72



0.27

\_\_\_\_\_ has a greater number of shaded parts.

\_\_\_\_\_ is greater than \_\_\_\_\_.

0.72 ☐ 0.27

**BUILT  
THE  
CONCEPT**

## TRY IT TOGETHER

Compare each pair of numbers. Write  $>$ ,  $<$ , or  $=$ .

5 128.35      112.35

\_\_\_\_\_

\_\_\_\_\_

6 0.13      0.13

\_\_\_\_\_

\_\_\_\_\_

7 5.3      6.15

\_\_\_\_\_

\_\_\_\_\_

8 4.2      4.23

\_\_\_\_\_

\_\_\_\_\_

## WORK ON YOUR OWN

### Compare Decimals

#### Using Symbols

1. Compare 6.41 with 6.47.

6.41

6.47

2.  $6.41$   
 $6.47$

3.  $1 < 7$

4.  $6.41 < 6.47$

#### Using Words

Write the numbers vertically. Line up the decimal points.

Start with the greatest place value. Going from left to right, find the first place where the digits are different.

Compare the different digits.

The number with the greater digit in this place value is the greater number. Write the inequality sign so that the closed end points to the lesser number.



## Ordering Decimals

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

# GET STARTED

- 1** a. 1.25      1.35      b. 2.54      2.5      c. 1.7      0.73

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- ② 225,175,300

least                      greatest


- 3** 0.6, 0.78, 0.4

           /            /           

↑                      ↑

greatest          least

_____	•	_____	_____
_____	•	_____	_____
_____	•	_____	_____

- 4 2.13, 12.06, 0.3, 0.6

           /            /            /           

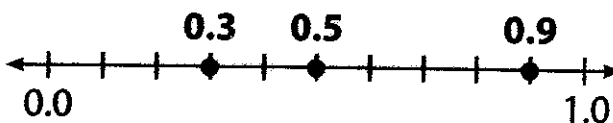
↑    ↑

greatest                                      least

_____	_____	•	_____	_____
_____	_____	•	_____	_____
_____	_____	•	_____	_____
_____	_____	•	_____	_____

**A number line can be used to order the decimals 0.5, 0.3, and 0.9.**

**Order from least to greatest:**



\_\_\_\_\_ is farthest left \_\_\_\_\_ is farthest right

least greatest

**greatest**      **least**

## BUILD THE CONCEPT

## TRY IT TOGETHER

Order each set of numbers from least to greatest.

5 0.57, 0.38, 0.52

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6 48.5, 59.3, 3.58

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Order each set of numbers from greatest to least.

7 0.84, 21.3, 8.51, 0.8

\_\_\_\_\_

8 14.32, 16.3, 7.04, 7.61

\_\_\_\_\_

## WORK ON YOUR OWN

### Order Decimals

#### Using Symbols

- Order from least to greatest:  
0.35, 0.47, 0.39

0.35

0.47

0.39

- tenths: 3, 4, 3

- $4 > 3$

0.47 is greatest.

- $0.35 < 0.39$

- $0.35 < 0.39 < 0.47$

0.35, 0.39, 0.47

#### Using Words

Write the numbers vertically. Line up the decimal points.

Find the greatest place value where the digits differ.

The number with the greatest digit in this place is the greatest number.

Continue comparing the remaining numbers.

Write the numbers in order from least to greatest or from greatest to least.









## Counting and Naming Money

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### GET STARTED

① five and six hundredths \_\_\_\_\_

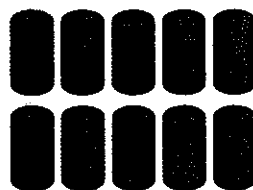
Penny	Nickel	Dime	Quarter	One-Dollar Bill	Five-Dollar Bill
					
\$0.01	\$0.05	\$0.10	\$0.25	\$1.00	\$5.00

②    \$ \_\_\_\_\_

③      \$ \_\_\_\_\_

④    \$ \_\_\_\_\_


Decimals name amounts of money.



=



100 pennies = 1 dollar  
\_\_\_\_\_ pennies = \$1.00

 =  $\frac{1}{100}$  of a dollar


\_\_\_\_\_ penny = \$0.01



=



10 dimes = 1 dollar  
\_\_\_\_\_ dimes = \$1.00

 =  $\frac{1}{10}$  of a dollar

\_\_\_\_\_ dime = \$0.10

**BUILD  
THE  
CONCEPT**



## TRY IT TOGETHER

Count the money and write each amount.

5



\_\_\_\_\_

6



\_\_\_\_\_

7

1 nickel, 3 pennies

\_\_\_\_\_

8

2 one-dollar bills, 2 quarters,  
1 dime

\_\_\_\_\_

## WORK ON YOUR OWN

### Count and Name Money

#### Using Symbols

1.



\$5.00



\$6.00



\$6.10   \$6.20   \$6.30   \$6.31   \$6.32

2. 6.

3. 6.32

4. \$6.32

#### Using Words

Start with the money that has the greatest value. Count on to find the total.

Write the number of dollars to the left of the decimal point. If there are no dollars, write 0.

Write the number of cents to the right of the decimal point.

Write a dollar sign (\$) to the left of the dollar amount.

HOW TO

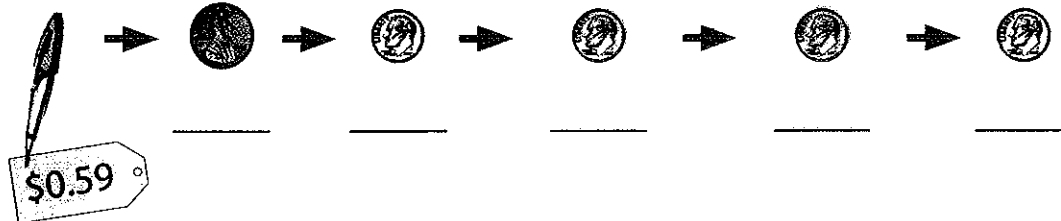
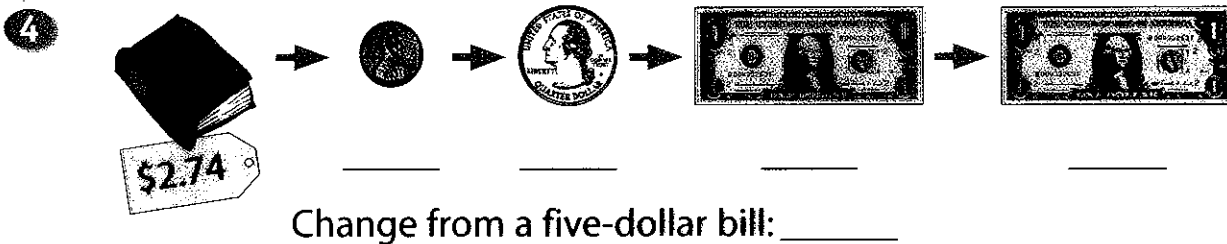
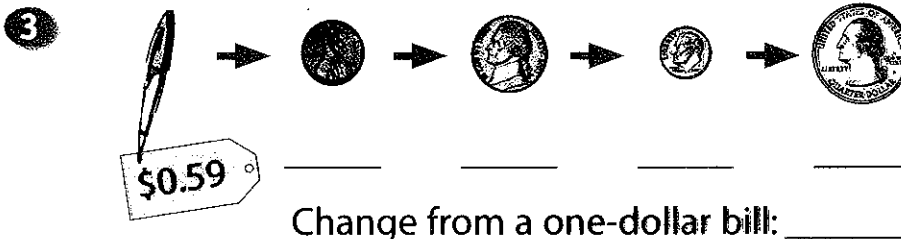
## Making Change

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### GET STARTED



- 2
- a. 5, 10, 15, 20, \_\_\_\_\_
  - b. 10, 20, 30, 40, \_\_\_\_\_
  - c. 25, 50, \_\_\_\_\_



Change from \$1.00: \_\_\_\_\_

**BUILD  
THE  
CONCEPT**

## TRY IT TOGETHER

Solve the problem.

- 5 Ronda bought one pound of apples for \$1.36. She gave the cashier 2 one-dollar bills. How much change did Ronda receive?



Ronda received \$\_\_\_\_\_ in change.

## WORK ON YOUR OWN

### Find the Correct Amount of Change

#### Using Symbols

1. Cost of item: \$3.33  
Amount paid: 1 five-dollar bill  
 $\$3.33 + \text{coin} + \text{coin} = \$3.35$

2.  $\$3.35 + \text{coin} = \$3.40$   
 $\$3.40 + \text{coin} = \$3.50$

3.  $\$3.50 + \text{coin} + \text{coin} = \$4.00$

4.  $\$4.00 + \text{bill} = \$5.00$

5.  $\text{bill} + \text{coin} + \text{coin} + \text{coin} + \text{coin} + \text{coin} = \text{Change}$   
Change: \$1.67

#### Using Words

Find the number of pennies by counting on by \$0.01 if necessary.

Find the number of nickels and dimes by counting on by \$0.05 and \$0.10 if necessary.

Find the number of quarters by counting on by \$0.25 if necessary.

Find the number of dollar bills by counting on by \$1.00 if necessary.

Count the change.

HOW TO

# Adding Decimals with the Same Number of Decimal Places

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1 a. 
$$\begin{array}{r} 134 \\ + 252 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 357 \\ + 464 \\ \hline \end{array}$$

2 a. 
$$\begin{array}{r} 1.34 \\ + 2.52 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 3.57 \\ + 4.64 \\ \hline \end{array}$$

3  $77.2 + 7.6$

4  $\$12.64 + \$8.38$

$$\begin{array}{r} + \\ \hline \end{array}$$

$$\begin{array}{r} + \\ \hline \end{array}$$

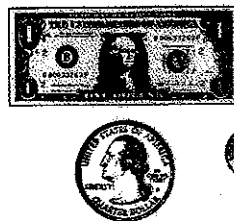
Money can be used to add decimals.

This money shows how to add 2.63 and 1.35.

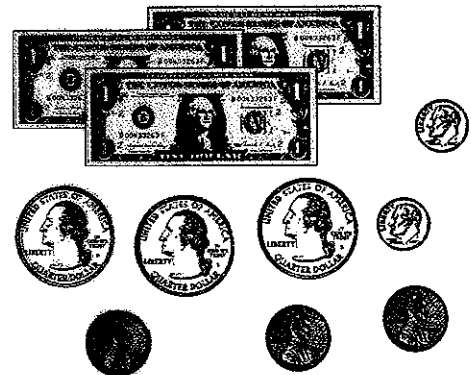
**BUILD THE CONCEPT**



+



=



\$ \_\_\_\_\_

+

\$ \_\_\_\_\_

=

\$ \_\_\_\_\_

$2.63 + 1.35 = \underline{\hspace{2cm}}$

## TRY IT TOGETHER

Find each sum. Regroup as needed.

5  $12.98 + 14.65$

$+$

6  $\$5.57 + \$1.98$

$+$

7  $4.3 + 2.4$

$+$

8  $\$20.31 + \$2.45$

$+$

## WORK ON YOUR OWN

### HOW TO

#### Add Decimals with the Same Number of Decimal Places

##### Using Symbols

1. Add:  $\$4.82 + \$3.57$

$$\begin{array}{r} \$4.82 \\ + \$3.57 \\ \hline \end{array}$$

##### Using Words

Write the problem vertically. Line up the decimal points.

2.  $\begin{array}{r} \$4.82 \\ + \$3.57 \\ \hline 9 \end{array}$

Add the digits in the column of the least place value. If the sum is greater than 9, regroup.

3.  $\begin{array}{r} \$4.82 \\ + \$3.57 \\ \hline 8.39 \end{array}$

Repeat Step 2 from right to left until all the columns have been added.

4.  $\begin{array}{r} \$4.82 \\ + \$3.57 \\ \hline \$8.39 \end{array}$

Write a decimal point in the sum below the decimal points in the problem.

If the sum is a money amount, write a dollar sign (\$) to the left of the dollar amount.

# Subtracting Decimals with the Same Number of Decimal Places

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

1 a. 
$$\begin{array}{r} 436 \\ - 115 \\ \hline \end{array}$$

b. 
$$\begin{array}{r} 64 \\ - 28 \\ \hline \end{array}$$

2 a. 
$$\begin{array}{r} 4.36 \\ - 1.15 \\ \hline \end{array}$$

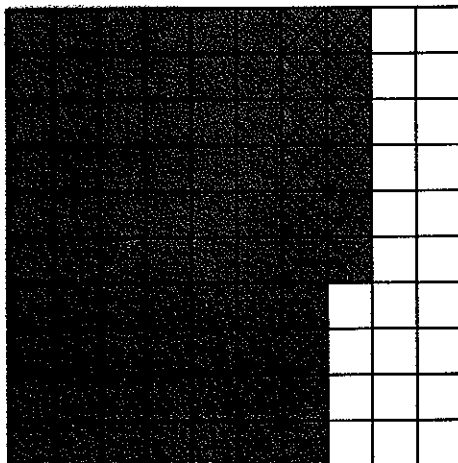
b. 
$$\begin{array}{r} 6.4 \\ - 2.8 \\ \hline \end{array}$$

3  $6.05 - 4.21$

4  $\$2.43 - \$1.26$

A decimal grid can be used to subtract decimals.

The decimal grid shows how to subtract  $0.76 - 0.19$ .



$0.76 - 0.19 = \underline{\hspace{2cm}}$

**BUILD  
THE  
CONCEPT**

# TRY IT TOGETHER

Find each difference. Regroup as needed.

5 
$$\begin{array}{r} 3.2 \\ - 2.4 \\ \hline \end{array}$$

6 
$$\begin{array}{r} \$1.52 \\ - \$0.43 \\ \hline \end{array}$$

7  $28.7 - 13.5$

8  $\$7.32 - \$6.15$

# WORK ON YOUR OWN

## Subtract Decimals with the Same Number of Decimal Places

HOW TO

### Using Symbols

1. Subtract:  $\$2.45 - \$0.83$

$$\begin{array}{r} \$2.45 \\ - \$0.83 \\ \hline \end{array}$$

### Using Words

Write the problem vertically. Line up the decimal points.

2. 
$$\begin{array}{r} \$2.45 \\ - \$0.83 \\ \hline 2 \end{array}$$

Subtract the digits in the column of the least place value. Regroup as needed.

3. 
$$\begin{array}{r} \overset{1}{\cancel{2}}\overset{14}{.}45 \\ - \$0.83 \\ \hline 162 \end{array}$$

Repeat Step 2 from right to left until all the columns have been subtracted.

4. 
$$\begin{array}{r} \$2.45 \\ - \$0.83 \\ \hline \$1.62 \end{array}$$

Write a decimal point in the difference below the decimal points in the problem.

If the difference is a money amount, write a dollar sign (\$) to the left of the dollar amount.

## Problem-Solving: Using Patterns

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

**GET STARTED**

- ① 3, 6, 9, 12, \_\_\_\_\_, \_\_\_\_\_

The pattern is \_\_\_\_\_.

- ② Mandy is in training for the school track meet. She ran 0.5 mile the first day of training, 1.0 mile the second day, and 1.5 miles the third day. If this pattern continues, how many miles will she run the fourth day?

a. Find: \_\_\_\_\_

b. How? \_\_\_\_\_

c. Solve. The pattern is \_\_\_\_\_.

First day: \_\_\_\_\_

Second day: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Third day: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Fourth day: \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

Mandy will run \_\_\_\_\_ miles the fourth day.

d. Is the answer reasonable? Explain. \_\_\_\_\_

\_\_\_\_\_



## TRY IT TOGETHER

Solve the problem using a pattern.

- 3 Darin measured the height of a water in a pond each day. The water was 1.75 feet the first day, 1.55 feet the second day, and 1.35 feet the third day. If this pattern continues, how high will the water be on the sixth day?

a. Find: \_\_\_\_\_

b. How? \_\_\_\_\_

c. Solve. The pattern is \_\_\_\_\_.

First day: \_\_\_\_\_

Second day: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

Third day: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

Fourth day: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

Fifth day: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

Sixth day: \_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

The water will be \_\_\_\_\_ foot the sixth day.

d. Is the answer reasonable? Explain. \_\_\_\_\_

## WORK ON YOUR OWN

### Solve a Problem Using a Pattern

Jack is saving money. He saved \$1.50 the first week, \$3.00 the second week, and \$4.50 the third week. If this pattern continues, how much money will he save the fifth week?

1. Find: the amount Jack will save the fifth week

2. How? Use a pattern.

3. Solve. Look at the pattern: \$1.50, \$3.00, \$4.50. The pattern is add \$1.50.

First week: \$1.50    Second week: \$3.00    Third week: \$4.50

Fourth week:  $\$4.50 + \$1.50 = \$6.00$

Fifth week:  $\$6.00 + \$1.50 = \$7.50$

If the pattern continues, Jack will save \$7.50 the fifth week.

4. Is the answer reasonable? Explain. Yes, \$7.50 is \$1.50 more than the previous week;  $\$7.50 - \$1.50 = \$6.00$ .

HOW TO

# Problem-Solving: Using a Table

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## GET STARTED

① 
$$\begin{array}{r} \$15.76 \\ + \$ 8.62 \\ \hline \end{array}$$

② 
$$\begin{array}{r} \$12.38 \\ - \$ 8.52 \\ \hline \end{array}$$

- ③ Refugio and Teisha each bought one magazine and one book. Refugio spent \$3.95 on a magazine and \$7.65 on a book. Teisha spent \$4.63 on a magazine. Together, they spent \$8.58 on magazines and \$16.85 on books. How much did Teisha's book cost?

- a. Find: \_\_\_\_\_
- b. How? \_\_\_\_\_
- c. Solve.

	Magazine	Book
Refugio	_____	_____
Teisha	_____	_____
Total	_____	_____

Teisha's book cost \_\_\_\_\_.

- d. Is the answer reasonable? Explain. \_\_\_\_\_
- \_\_\_\_\_

# TRY IT TOGETHER

Solve each problem using a table.

- 4 Perfect Pet Groom charges \$18.00 for a trim. A trim and a flea dip cost \$21.50 total. Mr. Smith's Pet Barbers charges \$17.50 for a trim and \$4.25 for a flea dip. How much does Perfect Pet Groom charge for a flea dip?

- a. Find: \_\_\_\_\_  
 b. How? \_\_\_\_\_  
 c. Solve.

			Total

Perfect Pet Groom charges \_\_\_\_\_ for a flea dip.

- d. Is the answer reasonable? Explain. \_\_\_\_\_

- 5 How much does Mr. Smith's Pet Barbers charge for a trim and a flea dip?  
 \_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

# WORK ON YOUR OWN

## HOW TO

### Solve a Problem Using a Table

Sam and Linda each bought a sandwich and a drink. Sam spent \$4.50 on a sandwich and \$1.75 on a drink. Linda spent \$3.75 on a sandwich. Together, they spent \$8.25 on sandwiches and \$4.85 on drinks. How much did Linda's drink cost?

	Sandwich	Drink
Sam	\$4.50	\$1.75
Linda	\$3.75	
Total	\$8.25	\$4.85

1. Find: how much Linda's drink cost  
 2. How? Complete the table.  
 3. Solve. Total for drinks — Sam's drink price = Linda's drink price  
                   \$4.85                   \$1.75                   =           \$3.10  
 4. Is the answer reasonable? Explain. Yes, \$3.10 + \$1.75 = \$4.85.