### **MAIN IDEA**

 Write decimals as fractions or mixed numbers in simplest form.

## **BUILD YOUR VOCABULARY (pages 86–87)**

Any number that can be written as a rational number.

is a

## **KEY CONCEPT**

Write Decimals as Fractions To write a decimal as a fraction, you can follow these steps.

- Identify the place value of the last decimal place.
- Write the decimal as a fraction using the place value as the denominator. If necessary, simplify the fraction.

## **EXAMPLES** Write Decimals as Fractions

Write each decimal as a fraction in simplest form.

0.4

The place-value chart shows that the place value of the last decimal place is

Place-Value Chart							
1,000	100	10	1	0.1	0.01	0.001	0.0001
thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten- thousandths
0	0	0	0	4	0	0	0

•

So, 0.4 means



Say four tenths.



Simplify. Divide the numerator and denominator by the GCF,



Place-Value Chart

1,000	100	10	1	0.1	0.01	0.001	0.0001
thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten- thousandths
0	0	0	0	3	8	0	0

Say thirty-eight hundredths.



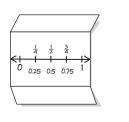
Simplify. Divide by the GCF,



## FOLDABLES

## **ORGANIZE IT**

Use the space under the Decimals tab of your Foldable to summarize how to write a decimal as a fraction.



	10	1	0.1	0.01	0.001	0.0001
			       0	redths	andths	andths

Place-Value Chart



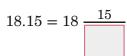
Simplify. Divide by the GCF,

#### **EXAMPLE** Write Decimals as Mixed Numbers

🚺 RAINFALL In 1955, Hurricane Diane moved through New England and produced one of the region's heaviest rainfalls in history. In a 24-hour period, 18.15 inches of rain were recorded in one area. Express this amount as a mixed number in simplest form.



In a decimal, the digits to the left of the decimal point represent whole numbers. The digits to the right of the decimal point represent fractions.



Say eighteen and fifteen hundredths.

= 18	
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Simplify.

# **HOMEWORK ASSIGNMENT**

Page(s):

**Exercises:** 



Write each decimal as a fraction



**b.** 0.64



**c.** 0.824



**d.** 23.56

