

MAIN IDEA

- Represent decimals in word form, standard form, and expanded form.

BUILD YOUR VOCABULARY (page 56)

Numbers that have digits in the place and beyond are called **decimals**.

Standard form is the usual way to write a .

Expanded form is a of the products of each digit and its .

FOLDABLES**ORGANIZE IT**

Under Lesson 3-1 of your Foldable, write what you know about decimals and what you would like to know.

Chapter 3:
Operations
with
Decimals

EXAMPLE Write a Decimal in Word Form

- Write 102.056 in word form.

Place-Value Chart

1000	100	10	1	0.1	0.01	0.001	0.0001
thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten-thousandths
0	1	0	2	0	5	6	0

The last digit, 6, is in the thousandths place.

one hundred two

and

fifty-six thousandths

102.056 is one two and thousandths.

Check Your Progress

Write 230.108 in word form.

EXAMPLE Standard Form and Expanded Form**REMEMBER IT**

When you read aloud a decimal, use the word and for the decimal point. For example, read 62.043 as *sixty-two* and *forty-three thousandths*.

- 1** Write *seventy-six and one hundred three thousandths* in standard form and in expanded form.

Place-Value Chart

1000	100	10	1	0.1	0.01	0.001	0.0001
thousands	hundreds	tens	ones	tenths	hundredths	thousandths	ten-thousandths
0	0	7	6	1	0	3	0

Standard form: 76.103

Expanded form: $(\square \times 10) + (\square \times 1) + (\square \times 0.1)$
 $+ (\square \times 0.01) + (\square \times 0.001)$

Check Your Progress

Write *fifty-nine and sixty-two thousandths* in standard form and in expanded form.

HOMEWORK ASSIGNMENT

Page(s):

Exercises: