

KEY CONCEPT OVERVIEW

In Lessons 4 through 8, students explore hundredths. They decompose tenths into hundredths and represent numbers in **decimal**, **fraction**, **expanded**, and **unit form**.

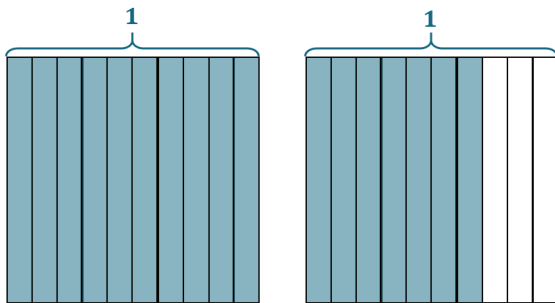
You can expect to see homework that asks your child to do the following:

- Express hundredths as the sum of tenths and hundredths and in decimal form (e.g., $\frac{56}{100} = \frac{5}{10} + \frac{6}{100} = 0.56$).
- Find equivalent fractions using multiplication and division (e.g., $\frac{3}{10} = \frac{3 \times 10}{10 \times 10} = \frac{30}{100}$).
- Shade area models to represent a mixed number and locate the number on a number line.
- Identify the value of the digits within a number and express numbers in various forms.
- Rename **decimal numbers** to represent them in other ways (e.g., $2.1 = 2\frac{1}{10} = \frac{21}{10} = \frac{210}{100}$).

SAMPLE PROBLEM (From Lesson 8)

Use the area model to represent $\frac{170}{100}$. Complete the number sentence.

$$\frac{170}{100} = \underline{17} \text{ tenths} = \underline{1} \text{ one } \underline{7} \text{ tenths} = \underline{1.7}$$



Additional sample problems with detailed answer steps are found in the *Eureka Math Homework Helpers* books. Learn more at GreatMinds.org.

HOW YOU CAN HELP AT HOME

- Prompt your child to look around the kitchen for five items such as boxes, cans, and bottles that have decimal numbers printed on them. Ask your child to say a decimal number and to identify the value of each digit. For example, if your child discovers a can with 21.35 written on it, she would say “twenty-one and thirty-five hundredths” and then state that the 2 has a value of 2 tens, the 1 has a value of 1 one, the 3 has a value of 3 tenths, and the 5 has a value of 5 hundredths.

TERMS

Decimal form: A number written in the form of a decimal. For example, 15 hundredths in decimal form is 0.15.

Decimal number: A number written using place value units that are powers of 10, such as hundreds, tens, ones, tenths, and hundredths. For example, 2.1 and 5.16 are decimal numbers, as are 245 and 31.

Expanded form: Representing a number as an addition expression or number sentence to show the value of each digit. For example, in fraction expanded form, $13\frac{42}{100} = (1 \times 10) + (3 \times 1) + \left(4 \times \frac{1}{10}\right) + \left(2 \times \frac{1}{100}\right)$, and in decimal expanded form, $13.42 = (1 \times 10) + (3 \times 1) + (4 \times 0.1) + (2 \times 0.01)$.

Fraction form: A number written in the form of a fraction. For example, 15 hundredths in fraction form is $\frac{15}{100}$.

Unit form: A number expressed in terms of its units. For example, $\frac{15}{100}$ written in unit form is 1 tenth 5 hundredths or 15 hundredths.

MODELS**Tape Diagram/Meter Stick**