EUREKA MATH™ TIPS FOR PARENTS

KEY CONCEPT OVERVIEW

In Lessons 9 through 11, students compare **decimal numbers** by focusing on the value of the digits within the numbers.

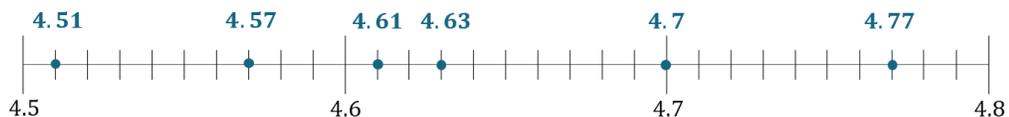You can expect to see homework that asks your child to do the following:

- Order and compare metric measurements of mass, volume, and length.
- Use the symbols $<$, $>$, and $=$ to show the comparison of numbers written in **unit form**, **fraction form**, or **decimal form**.
- Shade area models to represent decimal numbers.
- Plot and label points on a **number line** to represent decimal numbers written in fraction form and decimal form.
- Order numbers from least to greatest or from greatest to least in decimal form.

SAMPLE PROBLEM *(From Lesson 11)*

Plot the following points on the number line using decimal form.

4.57, 4 ones and 77 hundredths, $4\frac{61}{100}$, $\frac{463}{100}$, $\frac{47}{10}$, 4.51

4.57 4.77 4.61 4.63 4.7 4.51

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

- Plot six points on a number line using fraction form and decimal form, as shown on the number line in the Models section. Incorrectly plot at least two of the numbers. For example, start the number line at 7.1 and end it at 7.4. Make tick marks to represent each hundredth. Plot the points 7.14, 7.21, $7\frac{33}{100}$, $7\frac{2}{10}$, 7.39, and $\frac{728}{100}$. Plot 7.14 incorrectly at 7.24 and 7.39 incorrectly at 7.3. Have your child identify and re-plot the incorrectly plotted points.

- Access a website that can be used to determine the distance from one place to another. Help your child find the distance from your home to five different points of interest near you, such as a gas station, restaurant, library, post office, and school. Have her record each distance, read it in decimal form, and then order the distances from least to greatest. If you do not have Internet access, consider making up distances.

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.

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.

MODEL

Number Line