Name_____

Chapter 7 Divide Decimals

Dear Family,

In this chapter, your student is learning about division of decimals. The first lesson shows patterns for dividing by powers of 10. The next lesson uses compatible numbers to estimate quotients. Using models helps students to make sense of quotients involving decimals. Your student will learn how to place the decimal point in the quotient and how to work with zeros in the dividend. Finally, your student will solve multi-step word problems to apply what he or she has learned.

There are many situations that you can use to help your student understand division of decimals.

- Measure the length and width of a room in meters. Multiply to find the area. Give your student the area and the length of the room. Then ask, "What is the width, in meters?" Have your student first estimate the answer and then divide to find the actual answer. Ask, "Does your answer make sense, based on your estimate?"
- Use a grocery receipt as an opportunity to divide decimals when you buy apples or some other food by the pound. Say, "We spent $3.12 on apples that cost $1.98 per pound. How many pounds of apples did we buy?"
- Have your student find the unit price of an item. Say, "A 64-ounce bottle of juice costs $3.87. What is the unit price?"
- Divide money equally among people. Choose an amount of money, such as $5.73. Ask, "Can you divide the money equally among 3 people? If so, how much would each person get?"

By the end of this chapter, your student should feel confident with the learning targets and success criteria on the next page. Encourage your student to use and practice the skills of dividing decimals routinely.

Have fun dividing decimals!

Chapter 7 Divide Decimals (continued)

Lesson	Learning Target	Success Criteria
7.1 Division Patterns with Decimals	Find quotients involving decimals and powers of 10.	• I can explain how to divide a number by a power of 10. • I can explain patterns in the placement of the decimal point when dividing a decimal by a power of 10.
7.2 Estimate Decimal Quotients	Use compatible numbers to estimate quotients involving decimals.	• I can rename a dividend to estimate a quotient. • I can use compatible numbers to estimate a quotient. • I can explain different ways to estimate a quotient.
7.3 Use Models to Divide Decimals by Whole Numbers	Use models to divide decimals by whole numbers.	• I can use a model to represent a decimal. • I can divide a model to show equal groups. • I can use a model to divide a decimal by a whole number.
7.4 Divide Decimals by One-Digit Numbers	Divide decimals by one-digit whole numbers.	• I can use place value to divide. • I can place the decimal point in the quotient. • I can regroup when necessary. • I can use estimation to check my answer.
7.5 Divide Decimals by Two-Digit Numbers	Divide decimals by two-digit whole numbers.	• I can use place value to divide. • I can place the decimal point in the quotient. • I can regroup when necessary. • I can use estimation to divide.
7.6 Use Models to Divide Decimals	Use models to divide decimals by decimals.	• I can use a model to represent a decimal. • I can divide a model to show equal groups. • I can use a model to divide a decimal by a decimal.
7.7 Divide Decimals	Divide decimals by decimals.	• I can multiply a divisor and a dividend by a power of 10 to make the divisor a whole number. • I can place the decimal point in a quotient. • I can divide a decimal by a decimal.
7.8 Insert Zeros in the Dividend	Insert zeros in the dividend when dividing with decimals and whole numbers.	• I can explain when to insert one or more zeros in the dividend to find a quotient. • I can insert one or more zeros in a dividend to find a quotient. • I can recognize when a division problem is complete.
7.9 Problem Solving: Decimal Operations	Solve word problems involving decimals.	• I can understand a problem. • I can make a plan to solve. • I can solve a problem.