

KEY CONCEPT OVERVIEW

In Lessons 25 through 31, students learn to divide fractions and decimals. They use tape diagrams and number lines to help them solve problems. They also apply their skills in real-world contexts.

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

- Solve division problems involving fractions and decimals by drawing tape diagrams and number lines.
- Estimate the value of a decimal divided by a decimal, and then solve.
- Create and solve division word problems that are modeled by a tape diagram or an expression.

SAMPLE PROBLEM (From Lesson 30)

Rewrite the division expression as a fraction and then divide.

$$1.6 \div 0.04$$

$$= \frac{1.6}{0.04}$$

$$= \frac{1.6}{0.04} \times \frac{100}{100}$$

$$= \frac{160}{4}$$

$$= 40$$

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

- Practice skip-counting by fractions and decimals with your child. For example,

- Count by 2 tenths from 2 tenths to 20 tenths.

$$\frac{2}{10}, \frac{4}{10}, \frac{6}{10}, \frac{8}{10}, \frac{10}{10}, \frac{12}{10}, \frac{14}{10}, \frac{16}{10}, \frac{18}{10}, \frac{20}{10}$$

0.2, 0.4, 0.6, 0.8, 1, 1.2, 1.4, 1.6, 1.8, 2.

- Count by 5 tenths from 5 tenths to 50 tenths.

$$\frac{5}{10}, \frac{10}{10}, \frac{15}{10}, \frac{20}{10}, \frac{25}{10}, \frac{30}{10}, \frac{35}{10}, \frac{40}{10}, \frac{45}{10}, \frac{50}{10}$$

0.5, 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5.

- Play the Fraction Division card game with your child to practice dividing a whole number by a fraction and dividing a fraction by a whole number.

- Take out the jacks, queens, kings, aces, and jokers.
- Put the stack of remaining cards facedown.
- Flip a card to represent a whole number.
- Have your child flip a card to represent a fraction. The number flipped represents the denominator; the numerator will be 1.
- Write the division expression as the whole number divided by the fraction, and ask your child to solve.
- Play again, and let your card represent a fraction and your child's card represent a whole number.

For example, you flip the number 4. It represents the whole number 4. Your child flips the number 9. It represents the fraction $\frac{1}{9}$. You write the division expression $4 \div \frac{1}{9}$. He writes $4 \div \frac{1}{9} = 36$. For the second round, the division expression is $\frac{1}{4} \div 9$. The answer is $\frac{1}{36}$.