

## KEY CONCEPT OVERVIEW

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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)

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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](http://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  $\frac{1}{36}$ .