

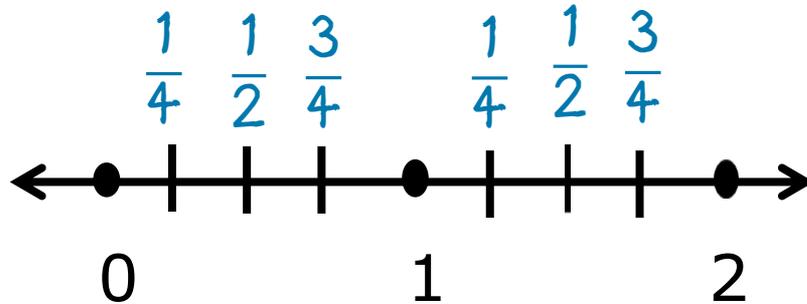
How do you divide

$$1.6 \div 0.2?$$

In this lesson you will learn  
how to divide decimals by  
using a number line.

# Let's Review

Number lines can show both whole numbers and fractions.



## A Common Mistake

Forgetting to take the decimal into consideration when dividing.

$$12 \div 0.6 \neq 2$$

## Core Lesson

Smart Estimate

$$1.6 \div 0.2$$

$$1.6 \div 0.2 = 8$$

There are 5 sets of 0.2 in each whole and 3 sets of 0.2 in 6 tenths

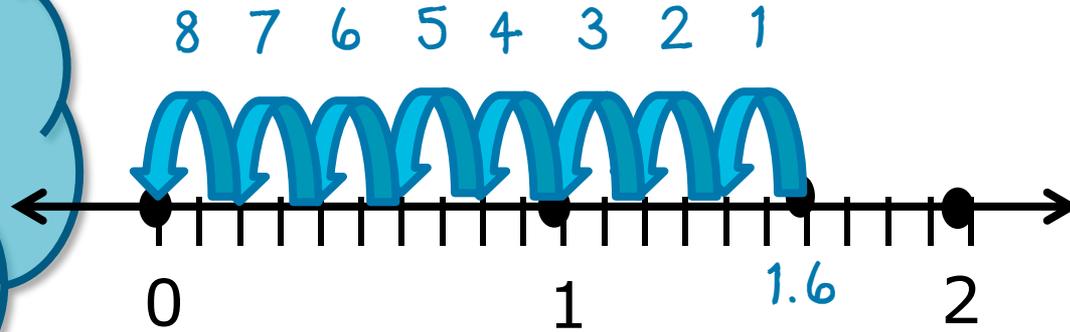
Smart estimate:

8

# Core Lesson

$$1.6 \div 0.2 = 8$$

This is a reasonable answer since it matches my smart estimate



# Core Lesson

Susie wants to walk to school which is 2.3 miles away. She wants to walk 0.5 of a mile and then take a break. How many breaks will she take?

2.3 is close to 2

$$2.3 \div 0.5 \approx$$

$$2 \div 0.5 \approx 4$$

Smart estimate:  
4

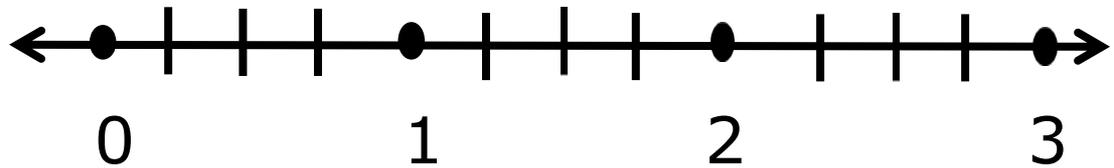
There are 2 sets of 0.5 in each whole



In this lesson you have learned  
how to divide decimals by  
using a number line.

# Guided Practice

$$2.5 \div 0.25$$



## Extension Activities

Fred buys 1.10 pounds of apples for a total price of \$3.30. Use a number line to show how much he paid per pound.

## Extension Activities

Explain why the quotient can be a whole number when we are dividing a decimal by a decimal.

# Quick Quiz

Which number line shows  $0.8$  divided by  $0.2$ ?

