

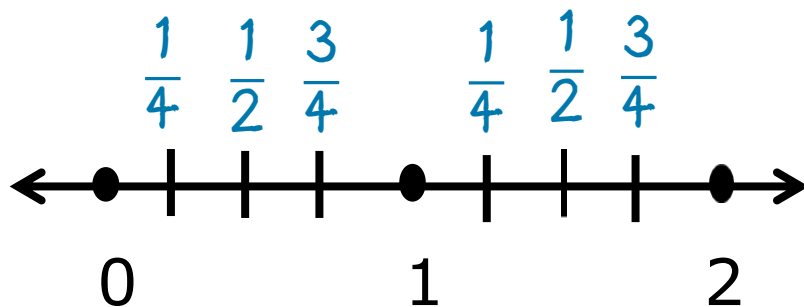
How do you divide

$$1.6 \div 0.2?$$

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

$$1.6 \div 0.2$$

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

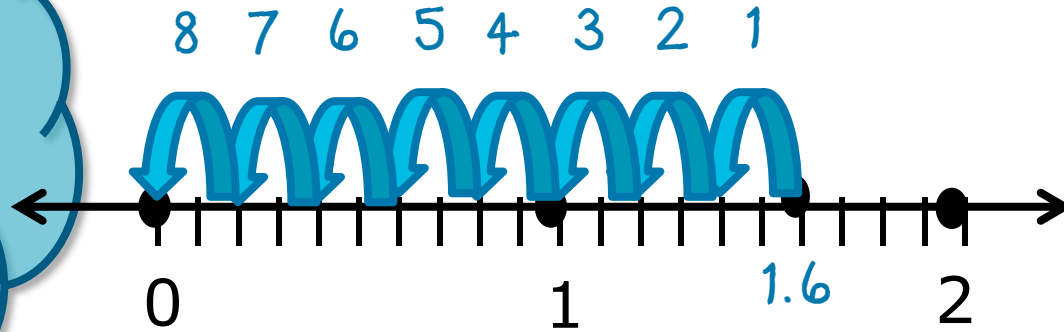
$$1.6 \div 0.2 = 8$$

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?

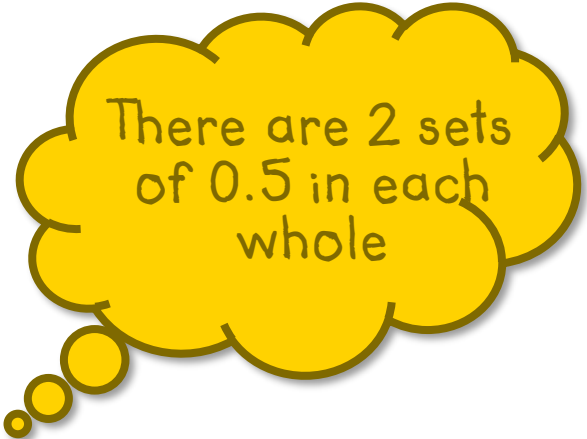


2.3 is close to 2

$$2.3 \div 0.5 \approx$$

$$2 \div 0.5 \approx 4$$

Smart estimate:
4



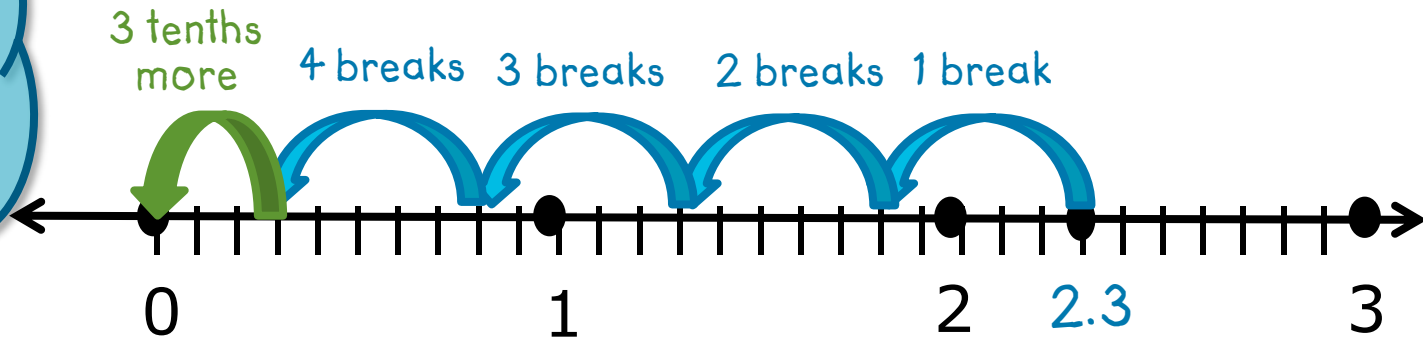
There are 2 sets
of 0.5 in each
whole

Core Lesson

$$2.3 \div 0.5 = 4 \text{ breaks}$$

Then she will walk 3 tenths more

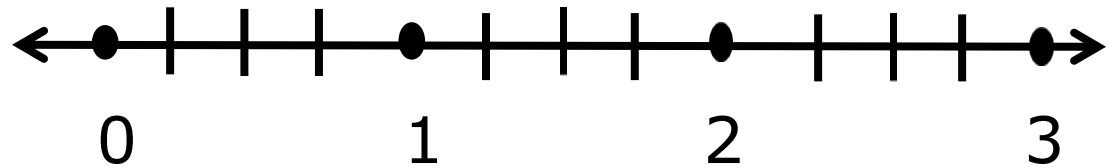
This is a reasonable answer since it is close to my smart estimate



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?

