# Understand Rates and Unit Rates

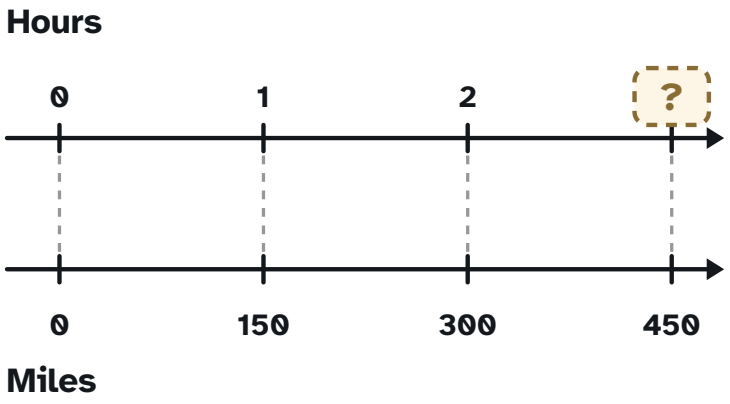
Describe a rate with two different units and find a unit rate.

**Name** _____ **Date** _____

## Tonight's spark

A train station board says the train goes 150 miles each hour. The next big city is 450 miles away. How many hours is the ride?

**Make a guess first: is the ride more than 2 hours, or less?**




**Our class model: the unit rate**

## Try it

Work it out on paper. Write one answer on each line.

**1** **Which one is a rate?**

**A.** 5 red to 3 blue **B.** $6 for 3 pounds **C.** 2 cups to 4 cups **D.** 7 out of 10

**My answer** _____

**2** **A snack costs $12 for 4 bags. What is the unit rate in dollars per bag?**

**A.** $8 **B.** $48 **C.** $3 **D.** $16

**My answer** _____

**3** **A train goes 120 miles each hour. How far does it go in 3 hours?**

**A.** 360 miles **B.** 40 miles **C.** 123 miles **D.** 117 miles

**My answer** _____

**4** **Grapes cost $2.50 per pound. How much do 4 pounds cost?**

**A.** $0.63 **B.** $6.50 **C.** $1.50 **D.** $10.00

**My answer** _____

**5** **Juice A: 4 bottles for $6. Juice B: 5 bottles for $9. Which has the lower price per bottle?**

**A.** Juice B, because it costs more in total **B.** Juice A, $1.50 per bottle

**C.** Juice B, $1.80 per bottle **D.** Juice A, because it has fewer bottles

**My answer** _____

**6** **A bus goes 45 miles each hour. How many hours does a 180-mile trip take?**

**A.** 4 hours **B.** 225 hours **C.** 135 hours **D.** 8,100 hours

**My answer** _____

### Talk about it

How far does the train go in 1 hour? In 2 hours?

### Home mission

Find a food package at home. Read its price and how many items it holds. Can your student say the price for 1 item? Then say it as "dollars per item."

### If we get stuck, ask

- What are the two units in this rate? Say both out loud.
- How much does one hour give us? Now count up one hour at a time.
- Does your answer have a unit on it? Miles, or hours?

**Do it on a screen**

Scan or type the link. Same lesson, with hints.

**eduwonderlab.com/lessons/3-2/homework.html**

**How did it feel? (optional)**

Tricky Getting there Got it