# Unit Rates: How Much for One?

Use unit prices and steady speeds to solve problems

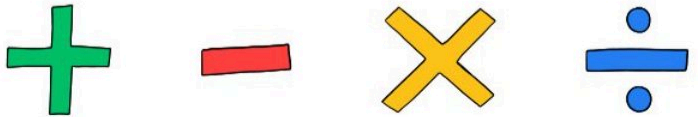
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# Best Deal Vote

## Two packs cost different amounts. What would you do first?

- **A** Grab the big pack
- **B** Grab the small pack
- **C** Check the price for 1 ounce
- **D** Pick my favorite flavor

Vote with your hands, then explain why.



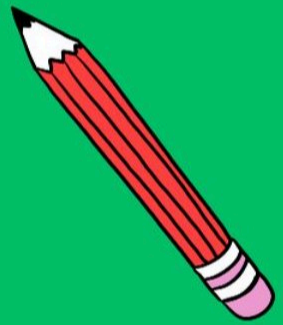


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$a^2+b^2=c^2$

# Crack Any Unit Rate

1. Write the rate with units
2. Divide to get down to 1
3. Label it per one
4. Multiply to answer bigger question



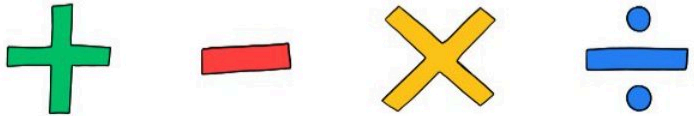
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BIG IDEA

# A unit rate tells you about ONE, then scales to anything.



Photo: itkannan4u · Pixabay



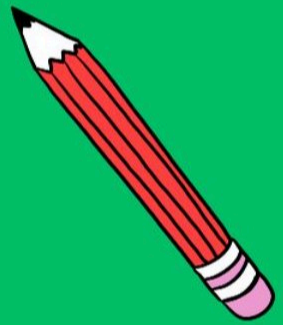
$a^2+b^2=c^2$

# Watch: Strategy That Works




▶ 0:00 – 1:55

- Listen for rate vs unit rate
- Spot the divide to get to 1
- Notice price and speed uses



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# Key words

**rate**

comparison of two different units, like miles and hours

**unit rate**

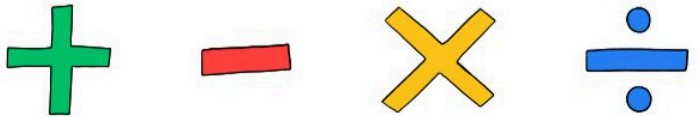
comparison showing how much for one, like 30 miles per hour

**unit price**

cost for 1 item, ounce, or pound

**constant speed**

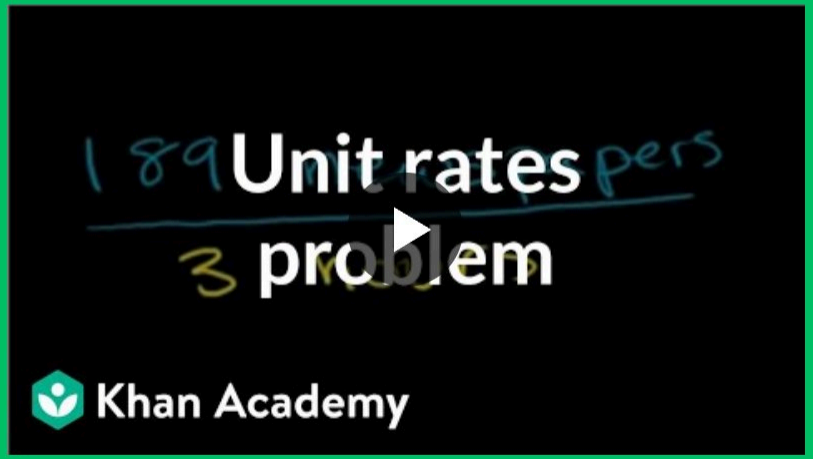
same miles per hour the whole trip



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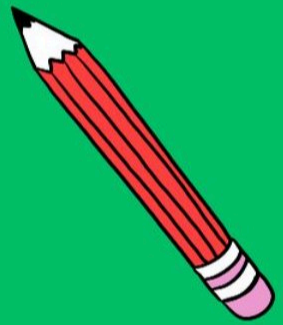
$a^2+b^2=c^2$

# Watch: Lawns in Hours




▶ 0:00 – 2:31

- How 4 lawns in 7 hours becomes lawns per hour
- How that rate finds lawns in 35 hours



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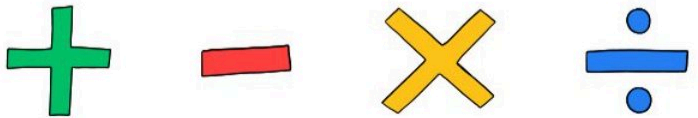
# Your task

**In pairs, solve price and speed cards using our steps.**

1. Find the unit rate for each card
2. Use it to answer the bigger question
3. Write answer with correct units

**10 min**

**In pairs**



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$a^2+b^2=c^2$

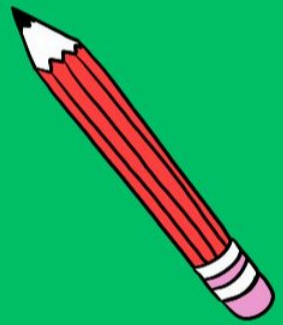
## Where You Use It

### Grocery

Compare dollars per ounce to find the better buy.

### Road trip

Use miles per hour to predict travel distance.



### Yard work

Use lawns per hour to plan a long job.

### Gas mileage

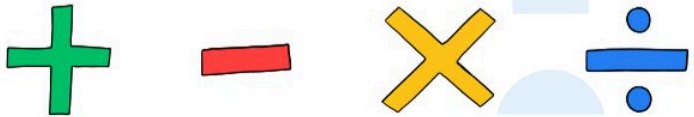
Use miles per gallon to compare cars.

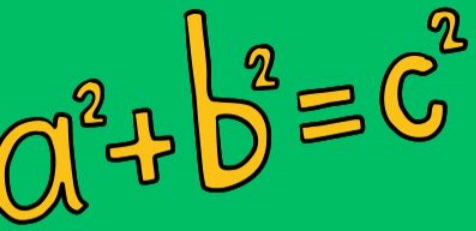
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# Think, pair, share

7 hours to mow 4 lawns. How many lawns in 35 hours? What was the rate?





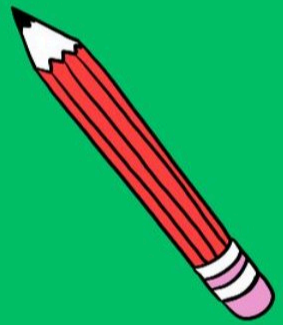

## True or false?

A unit rate always has 1 in the denominator.

60 miles in 2 hours is a unit rate.

Total price alone is enough to compare packs.

At a steady rate, you can multiply the unit rate to predict.



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