



## Unit Rates (Levels C/D)

15 Items

When people shop for food, they look for sale prices. "Five (5) apples for \$2.00." When people shop for gas, they look for the best deal. "\$2.49 per gallon." People look for the cheapest, or lowest, unit rate when they shop. Why? Because the lower a unit rate is, the less it costs to buy a specific quantity, or amount, of a product. In this collection, you will explore the concept of unit rate.

## Vocabulary

Click on the terms to learn more from Math Is Fun!

- **Rate** A comparison of two related quantities (Example: 3 apples per person)
- **Unit Rate** How much of something per something else (Example: 50 miles per hour)
- **Unit Price** The cost of an item per unit of measurement (Example: \$3.99 per pound)

## Warm-Up

Read the story about High Gas Prices. Then check your understanding using the Google Form.



### High Gas Prices | RSTA

RSTA

When you buy gas, do you look for the lowest price? You are not alone. People try to find the lowest "cost-per-gallon" to save money. This is called a unit rate.

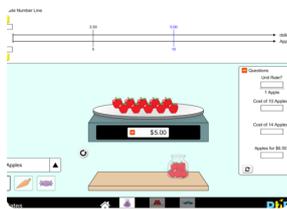
### READING CHECK: High Gas Prices

Google Docs

Complete this reading check after reading the story, "High Gas Prices."

# Explore

Use the Shopping simulation to change the **price per item** of different produce items. Then, use your understanding of unit rates to guess the amount you will pay for different **quantities** of produce.



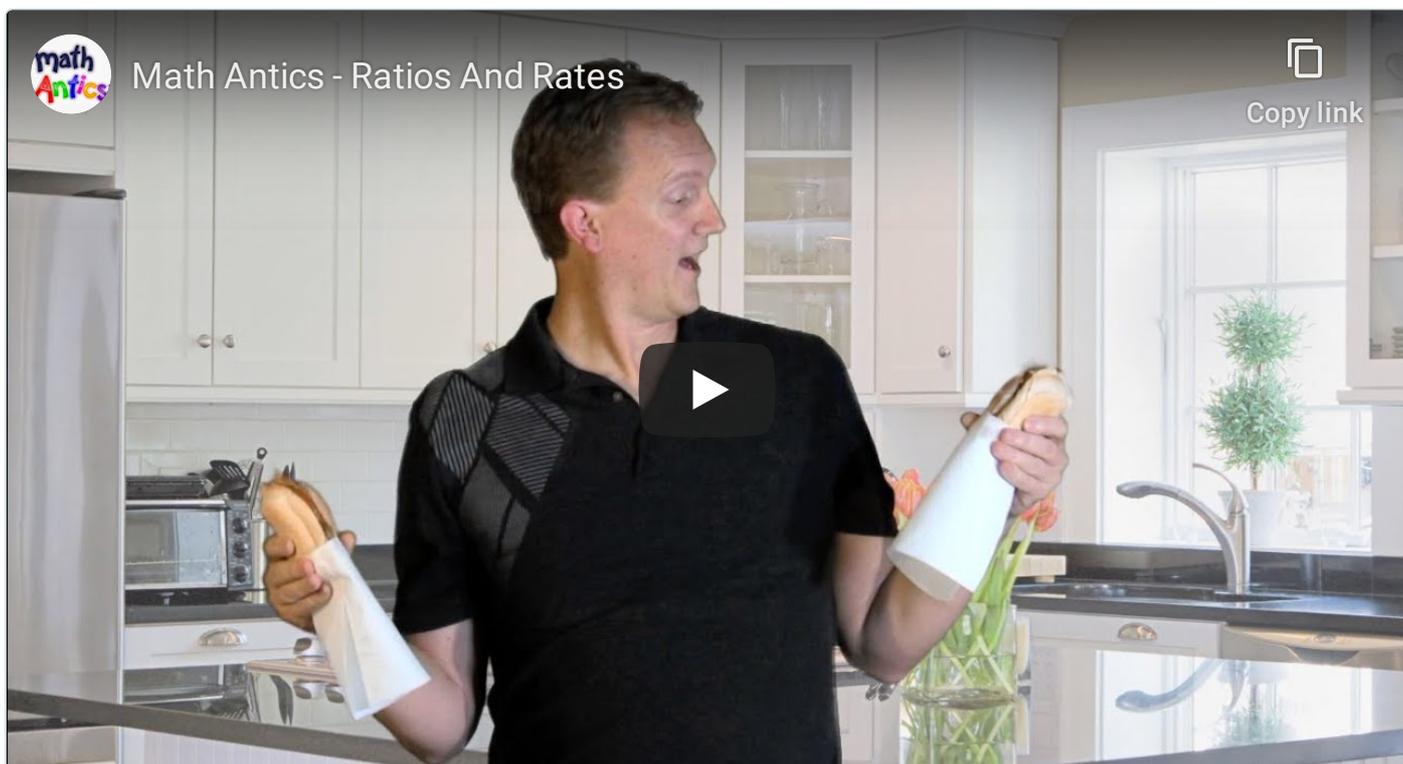
## SIMULATION: Unit Rates

 Colorado

Explore unit rates using the "Shopping" simulation. Complete the questions for one type of fruit, one type of vegetables, and one type of candy.

# Learn

Choose from one or more of the following resources to learn the concept of unit rates.



## VIDEO: Math Antics - Ratios And Rates

 YouTube

Watch this video from Math Antics to learn more about Unit Rates. To watch more videos from Math Antics, visit <http://www.mathantics.com>.



## CONTENT SET: Unit Rates

 CK-12 Foundation

This resource set for Unit Rates includes a video, simulation, and real-world article.



### Intro to rates

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## Concept Check

Show your understanding by completing the three quizzes. If you have difficulty with the concepts in the quizzes, use the "Watch a Video" link to get help.



### QUIZ 1: Unit rates

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### QUIZ 2: Rate problems

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### QUIZ 3: Comparing rates

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**CCRS Standard 6.RP.2** | Understand the concept of a unit rate  $a/b$  associated with a ratio  $a : b$  with  $b \neq 0$  ( $b$  not equal to zero), and use rate language in the context of a ratio relationship. *For example, "This recipe has a ratio of 3 cups of flour to 4 cups of sugar, so there is  $3/4$  cup of flour for each cup of sugar." "We paid \$75 for 15 hamburgers, which is a rate of \$5 per hamburger."* (Expectations for unit rates in this level are limited to non-complex fractions.)

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