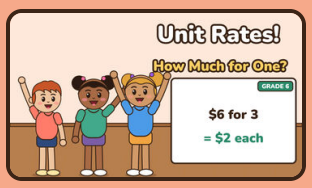
HAKILLO KIDS · TEACHER GUIDE · COMMON CORE EDITION · GRADE 6 · LESSON 2

Unit Rates



COMMON CORE
6.RP.A.2, 6.RP.A.3.b

VIDEO LENGTH
4:25 · Virginia SOL edition also available

WATCH THE LESSON FREE
hakillokids.org/math/grade-6#G6-02

PRACTICE ONLINE
learn.hakillokids.org · videos stop for each question, scored automatically

6.RP.A.2 Understand the concept of a unit rate a/b associated with a ratio a:b with b ≠ 0, 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."1

6.RP.A.3.b Solve unit rate problems including those involving unit pricing and constant speed. For example, if it took 7 hours to mow 4 lawns, then at that rate, how many lawns could be mowed in 35 hours? At what rate were lawns being mowed?

Materials: Grocery ads or price tags, calculators (optional), double number lines.

Students will

- Explain a rate as a comparison of two different kinds of quantities.
- Find a unit rate by dividing (how much for one).
- Use speed as a unit rate (miles per hour).
- Compare unit prices to find the better buy.

Key words

rate	a ratio of two different units (dollars for apples)
unit rate	the amount for one unit
per	for each
unit price	the cost of one item

Before the video 2 minutes

Show two prices: 3 granola bars for $3.00 and 5 for $4.00. Ask: "Which is the better deal? How can you tell?"

What happens in the video

0:00	Welcome and today's goal: unit rates
0:20	Six dollars for three apples: two dollars per apple
0:37	120 miles in 2 hours: 60 miles per hour
0:53	The better buy: 40 cents each beats 50 cents each
1:13	Spot the mistake: divide dollars by notebooks
1:38	Your turn! Students answer during each pause (see below)
4:06	Recap and goodbye

Spot the mistake at 1:13

> **Sam:** Eight dollars for four notebooks. Four divided by eight. Half a dollar each!
> **Ivy:** Hmm... what should we divide?
> **Mia:** For the price of one, divide the dollars by the notebooks. Eight divided by four is two dollars each.
> **Sam:** Oops! Dollars divided by notebooks. Two dollars each!

- Ask: “What do we want: dollars for one notebook, or notebooks for one dollar?” (Dollars for one notebook.)
- Write it as dollars over notebooks: 8/4.
- Check: 4 notebooks at $2 each is $8.

Your-turn pauses students answer out loud, then the characters give the answer

TIME	QUESTION	ANSWER IN THE VIDEO
1:39	Ten dollars for five books. How much for one book?	Two dollars per book!
1:53	Ninety miles in three hours. How many miles per hour?	Thirty miles per hour!
2:07	Twelve cookies for four kids. How many cookies per kid?	Three cookies each!
2:22	Eighteen dollars for six tickets. What is the price per ticket?	Three dollars each!
2:37	Two hundred words in four minutes. How many words per minute?	Fifty words per minute!
2:51	One sandwich costs seven dollars. How much for three sandwiches?	Twenty-one dollars!
3:07	Forty-eight pages in eight days. How many pages per day?	Six pages a day!
3:22	Five dollars for ten stickers. What is the price per sticker?	Fifty cents each!
3:36	A runner goes twelve miles in two hours. How many miles per hour?	Six miles per hour!
3:52	Sixty-four ounces in eight bottles. How many ounces per bottle?	Eight ounces each!

Tip: pause the video a little longer on any question your class finds hard, and ask a student to explain how they know.

After the video: talk about it

1. Why is the unit rate useful when shopping?
2. What does 'per' mean?
3. How do you use a unit rate to find the cost of 7 items?

Go further

Smart shopper: students compare unit prices of two sizes of the same product from real ads and report which is the better buy.

Answer key for the practice page

1. $3
2. 50 miles per hour
3. 4
4. $40
5. 10 pens for $4 ($0.40 each vs $0.50 each)
6. 450 words (45 words per minute)

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HAKILLO KIDS · GRADE 6 · LESSON 2 · PRACTICE

Unit Rates

Name: _____ **Date:** _____

1. **$12 for 4 notebooks. Price per notebook?**

   Answer: _____

2. **150 miles in 3 hours. Miles per hour?**

   Answer: _____

3. **24 cookies for 6 kids. Cookies per kid?**

   Answer: _____

4. **One ticket costs $8. How much for 5 tickets?**

   Answer: _____

5. **6 pens for $3 or 10 pens for $4. Which is the better buy?**

   Answer: _____

6. **Ivy types 180 words in 4 minutes. At that rate, how many words in 10 minutes? Show the unit rate.**

   Answer: _____

Watch the lesson free: hakillokids.org/math/grade-6#G6-02
Practice online with Mia, Sam & Ivy: **learn.hakillokids.org**