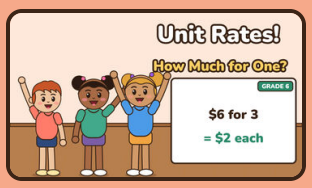
HAKILLO KIDS · TEACHER GUIDE · VIRGINIA SOL EDITION · GRADE 6 · LESSON 2

Unit Rates



VIRGINIA SOL (2023)
6.PFA.2

VIDEO LENGTH
4:25 · Common Core 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.PFA.2 The student will identify and represent proportional relationships between two quantities, including those in context (unit rates are limited to positive values).

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**