

Grade 6 - Unit Rates and Rate Language - Test

Common Core 6.RP.A.2, 6.RP.A.3b · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **grade 6 unit rates test** for 6th Grade covers unit rates and rate language (Common Core 6.RP.A.2, 6.RP.A.3b), with a free PDF to print.

This 45-minute test has 9 questions worth 20 points. It covers unit rates, unit prices, speed, tables, fraction rates, and better-buy decisions from Common Core 6.RP.A.2 and 6.RP.A.3b. Show your work.

Time and points

About this test

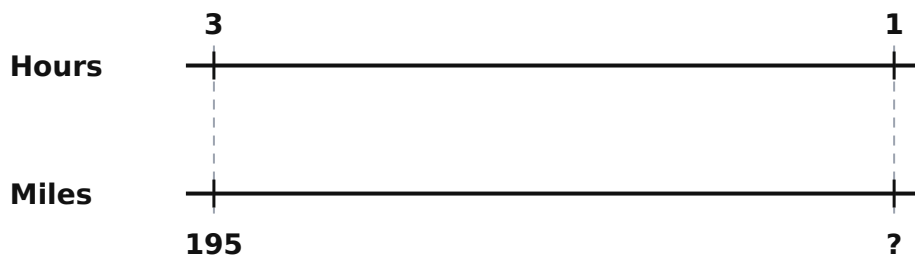
- Grade: Grade 6
- Chapter: Unit Rates and Rate Language
- Standards: 6.RP.A.2, 6.RP.A.3b
- Time: 45 minutes
- Total: 20 points

Grade 6 unit rates test: questions

Question 1 - Unit rate [2 pts]

Maya paid \$14.40 for 6 pounds of grapes. Find the cost per pound.

Question 2 - Speed [2 pts]



A truck driving at a constant speed.

A truck drives 195 miles in 3 hours. Find its speed in miles per hour.

Question 3 - Using a unit rate [2 pts]

A printer prints 18 pages per minute. Find the number of pages it prints in 12 minutes.

Question 4 - Better buy [2 pts]

A 16-ounce bottle of juice costs \$2.88. A 24-ounce bottle costs \$3.84. Decide which bottle is the better buy. Show the unit prices.

Question 5 - Fraction rate [2 pts]

A snail crawls $\frac{1}{2}$ foot in $\frac{1}{4}$ hour. Find its speed in feet per hour.

Question 6 - Table of a rate [2 pts]

Cups	3	5	8
Cost	\$12	\$20	\$32

Cost of cups of smoothie mix.

The table shows the cost of cups of smoothie mix. Find the cost of 1 cup and the cost of 11 cups.

Question 7 - Compare paces [2 pts]

Noah bikes 18 miles in 1.5 hours. Ethan bikes 26 miles in 2 hours. Decide who bikes faster.

Question 8 - Shopping plan [3 pts]

A bake sale needs 30 eggs. Eggs cost \$3.60 for 12. Find the cost per egg, then the cost of 30 eggs, then the change from a \$20 bill.

Question 9 - Road trip [3 pts]

Miles	54	54	54	54	54
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Dad drives the same distance each hour.

On a road trip, Dad drives 270 miles in 5 hours at a constant speed. Find the speed. Then find how many hours the trip takes if the whole trip is 702 miles at that speed.

Key facts behind this grade 6 unit rates test

Key facts

- A unit rate has 1 in the second quantity, such as miles per 1 hour.
- Divide the first quantity by the second to find a unit rate.
- The word per means for each one.
- The lower unit price is the better buy when units match.
- Distance = rate x time at a constant speed.

How to use this grade 6 unit rates test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.