Grade 6 · Unit Rates · Test

Common Core 6.RP.A.2, 6.RP.A.3b · mathovore.fr

Name: _____ Date: ____/____/_____ Score: _____

> This 45-minute test covers unit rates, unit price, constant speed, and comparing prices from standards 6.RP.A.2 and 6.RP.A.3b. It has 8 questions worth 20 points in all. Show your work and include units in every answer.

Test information

- **Grade:** Grade 6
- **Chapter:** Unit Rates
- **Common Core:** 6.RP.A.2, 6.RP.A.3b
- **Time:** 45 minutes
- **Total:** 20 points (Question 1: 2 pts; Question 2: 2 pts; Question 3: 2 pts; Question 4: 3 pts; Question 5: 3 pts; Question 6: 3 pts; Question 7: 3 pts; Question 8: 2 pts)

Question 1: Reading rate (2 points)

Priya reads 45 pages in 90 minutes at a steady pace.

a. Find her unit rate in pages per minute. *(1 point)*
b. Find her unit rate in minutes per page. *(1 point)*

Question 2: Grape prices (2 points)

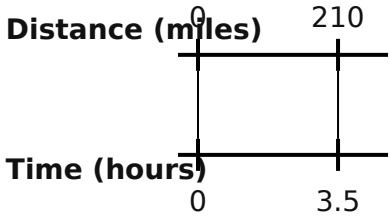
Five pounds of grapes cost $9.75.

a. Find the price per pound. *(1 point)*
b. Find the cost of 8 pounds. *(1 point)*

Question 3: Highway speed (2 points)

A bus travels 210 miles in 3.5 hours at a constant speed.

a. Find its speed in miles per hour. *(1 point)*
b. How far does it travel in 5 hours at this speed? *(1 point)*



The bus travels 210 miles in 3.5 hours.

Question 4: Best buy: snacks (3 points)

A store sells three sizes of trail mix: 18 ounces for $4.14, 24 ounces for $5.28, and 30 ounces for $6.90. Which size has the lowest price per ounce? Show the unit price of each size.

Size	Ounces	Price
A	18	$4.14
B	24	$5.28
C	30	$6.90

Three sizes of trail mix.

Question 5: Typing speeds (3 points)

Ethan types 150 words in 5 minutes. Aisha types 222 words in 6 minutes. Who types faster, and by how many words per minute?

Question 6: Hourly pay (3 points)

Noah earns $13 per hour mowing lawns.

a. How much does he earn in 10 hours? *(1 point)*
b. How many hours must he work to earn $195? *(1 point)*
c. Explain why $13 per hour and $26 for 2 hours describe the same rate. *(1 point)*

Question 7: Honey jars (3 points)

At a farmers market, a 12-ounce jar of honey costs $5.40 and a 16-ounce jar costs $6.88.

a. Find the price per ounce of each jar. *(2 points)*
b. Using the better buy, find the cost of 48 ounces of honey. *(1 point)*

Jar	Ounces	Price
Small	12	$5.40
Large	16	$6.88

Two jars of honey.

Question 8: Gas mileage (2 points)

A car uses 9 gallons of gas to travel 288 miles.

a. Find the number of miles per gallon. *(1 point)*
b. How many gallons are needed to travel 400 miles at this rate? *(1 point)*