

# 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.

- Find her unit rate in pages per minute. (1 point)
- Find her unit rate in minutes per page. (1 point)

## Question 2: Grape prices (2 points)

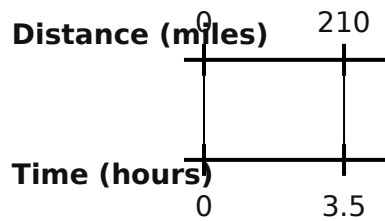
Five pounds of grapes cost \$9.75.

- Find the price per pound. (1 point)
- 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.

- Find its speed in miles per hour. (1 point)
- 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.

- How much does he earn in 10 hours? (1 point)
- How many hours must he work to earn \$195? (1 point)
- 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.

- Find the price per ounce of each jar. (2 points)
- 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)

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

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