

Grade 6 - Unit Rates and Rate Language - Quiz

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

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

This **grade 6 unit rates quiz** 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 quiz has 10 multiple-choice questions on unit rates, unit price, and speed (Common Core 6.RP.A.2). Choose one answer for each question and read the explanation to see the common mistake.

Grade 6 · Common Core State Standards: **6.RP.A.2, 6.RP.A.3b**

Grade 6 unit rates quiz: 10 questions

Questions

Question 1

Ethan bought 5 packs of gum for \$4.00. What is the price of one pack?

- A. \$1.25
- B. \$0.80
- C. \$0.20
- D. \$9.00

Question 2

A cyclist rides 36 miles in 3 hours. What is her speed?

- A. 108 miles per hour
- B. 33 miles per hour
- C. $\frac{1}{12}$ miles per hour
- D. 12 miles per hour

Question 3

Which store has the lowest price per can?

Store	Cans	Price
A	6	\$4.50
B	4	\$3.20
C	10	\$7.00

Three stores.

- A. Store C
- B. Store A
- C. Store B
- D. All three are equal

Question 4

A machine makes 48 toys in 6 hours. How many toys does it make in 10 hours at the same rate?

- A. 8
- B. 80
- C. 60
- D. 288

Question 5

Which sentence describes the unit rate 4.5 gallons per minute?

- A. For every 1 gallon, 4.5 minutes pass
- B. For every 4.5 minutes, 1 gallon flows
- C. For every 45 minutes, 1 gallon flows
- D. For every 1 minute, 4.5 gallons flow

Question 6

A 12-ounce bag of chips costs \$3.00. What is the price per ounce?

Ounces	12	1
	-----	-----
Cost	\$3.00	?

Chips.

- A. \$4.00
- B. \$0.40
- C. \$0.25
- D. \$36.00

Question 7

A runner takes 40 minutes to run 5 miles. How many minutes does she take per mile?

- A. 35 minutes
- B. 8 minutes

- C. 200 minutes
- D. $\frac{1}{8}$ minute

Question 8

A bike travels $\frac{3}{4}$ mile in $\frac{1}{4}$ hour. What is its speed?

- A. 3 miles per hour
- B. $\frac{3}{16}$ miles per hour
- C. 1 mile per hour
- D. $\frac{1}{3}$ miles per hour

Question 9

Pizza costs \$18 for 3 pizzas. How much do 7 pizzas cost at the same price?

- A. \$42
- B. \$6
- C. \$21
- D. \$54

Question 10

Which is the faster speed?

Car	Miles	Hours
A	150	3
B	220	4
C	80	2

Three cars.

- A. Car A at 50 miles per hour
- B. Car C at 40 miles per hour
- C. Car B at 55 miles per hour
- D. Car B at 60 miles per hour

Answers

1. **B** - $(\$4.00 \div 5 = \$0.80)$. Dividing 5 by 4 gives \$1.25, which flips the division.
2. **D** - Divide distance by time: $(36 \div 3 = 12)$. Multiplying (108) is a common mistake.
3. **A** - A is \$0.75 per can, B is \$0.80, and C is \$0.70. Store C is lowest.
4. **B** - The unit rate is $(48 \div 6 = 8)$ toys per hour, so $(8 \times 10 = 80)$. Multiplying 48 by 6 gives 288.
5. **D** - The word "per" tells which quantity is 1. Here it is 1 minute.
6. **C** - Divide the cost by the ounces: $(3.00 \div 12 = 0.25)$.
7. **B** - Divide the time by the miles: $(40 \div 5 = 8)$.
8. **A** - $3 \div (4 \div 1) = 3 \div 4 = 3/4$. The product of the fractions is $3/16$, which is not a rate.
9. **A** - Each pizza is $(\$18 \div 3 = \$6)$. Then $(7 \times \$6 = \$42)$.
10. **C** - A is 50, B is 55, and C is 40 miles per hour. Car B is fastest.

Remember

Remember

- 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 quiz

Answer each question, read the explanation that appears, and keep track of your score. A score of 8 out of 10 or more means you are ready for the test.

Download the grade 6 unit rates quiz as a PDF with the button below and keep it with your notes.

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