

Grade 6 - Unit Rates and Rate Language - Answer Key

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

This **grade 6 unit rates answers** 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.

Check your unit rates here. Each solution shows the division, the unit rate with its units, and any multiplication used to scale it. The final answer is in bold, so you can compare it quickly with yours.

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

Grade 6 unit rates answers: exercises 1 to 10

Exercise 1 - Unit price of notebooks

Divide the total cost by the number of notebooks.

$$\$9.00 \div 6 = \$1.50$$

\$1.50 per notebook

	6		1
Notebooks		—————	
Cost		—————	
	\$9		\$1.50

Dividing both numbers by 6 gives the unit price.

Exercise 2 - Reading pace

Pages per hour: $96 \div 4 = 24$.

Hours per page: $4 \div 96 = \frac{1}{24}$.

24 pages per hour; $\frac{1}{24}$ hour per page

Exercise 3 - Typing speed

$$210 \div 7 = 30$$

30 words per minute

Exercise 4 - Price per ounce

$$\$2.40 \div 8 = \$0.30$$

\$0.30 per ounce

Exercise 5 - Walking rate

Divide distance by time: $\frac{3}{4} \div \frac{1}{4}$.

$$\frac{3}{4} \times 4 = 3$$

3 miles per hour

Exercise 6 - Rate language

$$15 \div 6 = 2.5$$

It means the hose fills 2.5 gallons *per* minute, or 2.5 gallons for each minute.

2.5 gallons per minute

Exercise 7 - Cost of 7 items

Multiply the unit price by the number of bars.

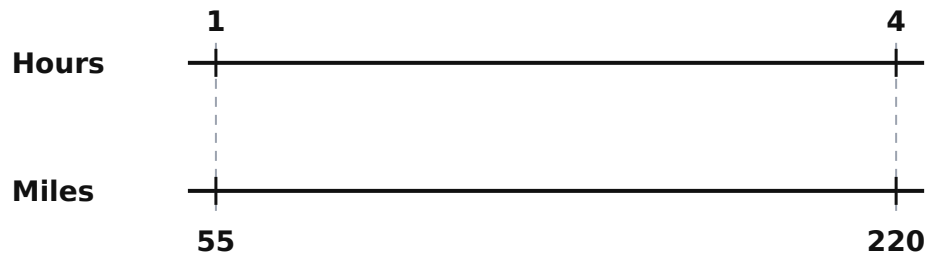
$$\$2.25 \times 7 = \$15.75$$

\$15.75

Exercise 8 - Distance at constant speed

$$55 \times 4 = 220$$

220 miles



Multiplying both numbers by 4.

Exercise 9 - Better buy: cereal

Small: $\$3.60 \div 12 = \$0.30$ per ounce.

Large: $\$5.04 \div 18 = \$0.28$ per ounce.

$\$0.28$ is less than $\$0.30$.

The large box is the better buy.

Exercise 10 - Heartbeat

Per second: $36 \div 30 = 1.2$.

Per minute: $1.2 \times 60 = 72$.

1.2 beats per second, 72 beats per minute

Exercises 11 and up

Exercise 11 - Hourly pay

$\$63.00 \div 4.5 = \$14.00$

\$14.00 per hour

Exercise 12 - Pages per day

Unit rate: $84 \div 6 = 14$ pages per day.

$14 \times 15 = 210$

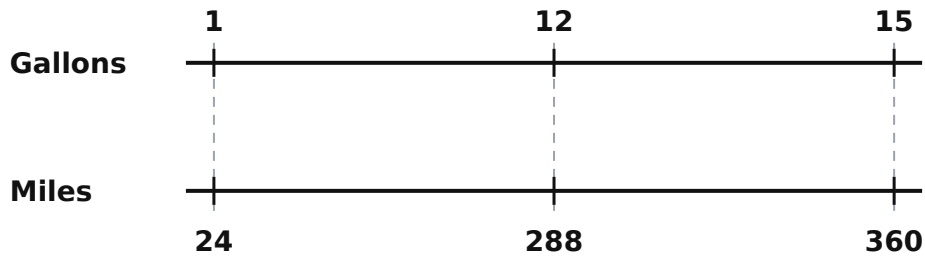
210 pages

Exercise 13 - Gas mileage

$288 \div 12 = 24$ miles per gallon.

$24 \times 15 = 360$

24 miles per gallon; 360 miles



The van goes 24 miles on each gallon.

Exercise 14 - Unit rate from a table

$\$30.00 \div 2 = \$15.00$. Check: $\$60.00 \div 4 = \$15.00$ and $\$90.00 \div 6 = \$15.00$.

\$15.00 per hour

Exercise 15 - Better buy: apples

5 pounds: $\$8.75 \div 5 = \$1.75$ per pound.

8 pounds: $\$13.20 \div 8 = \$1.65$ per pound.

\$1.65 is less than \$1.75.

The 8-pound bag is the better buy.

Exercise 16 - Who runs faster?

Aisha: $27 \div 3 = 9$ minutes per mile.

Liam: $40 \div 5 = 8$ minutes per mile.

Fewer minutes per mile means a faster pace.

Liam runs faster (8 minutes per mile).

Exercise 17 - Apples and change

Price per pound: $\$7.50 \div 5 = \$1.50$.

Cost of 8 pounds: $\$1.50 \times 8 = \$12.00$.

Change: $\$20.00 - \$12.00 = \$8.00$.

\$8.00

Exercise 18 - Road trip speeds

First part: $156 \div 3 = 52$ miles per hour.

Second part: $224 \div 4 = 56$ miles per hour.

In 5 hours at 52 miles per hour: $52 \times 5 = 260$ miles.

52 mph, 56 mph, 260 miles

Exercise 19 - Dripping faucet

$$\frac{3}{4} \div 6 = \frac{3}{4} \times \frac{1}{6} = \frac{1}{8}$$

$$\frac{1}{8} \times 24 = 3$$

$\frac{1}{8}$ gallon per hour; 3 gallons in 24 hours

Exercise 20 - Reading rate

Chapters per hour: $\frac{2}{3} \div \frac{1}{2} = \frac{2}{3} \times 2 = \frac{4}{3}$.

Hours per chapter: $\frac{1}{2} \div \frac{2}{3} = \frac{1}{2} \times \frac{3}{2} = \frac{3}{4}$.

$1\frac{1}{3}$ chapters per hour; $\frac{3}{4}$ hour per chapter

Key facts behind this grade 6 unit rates answers

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 answers

Cover each solution, solve the exercise again, then uncover it and compare every line. If your answer differs, find the first step that changed and redo the exercise from there.

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