Name_____ Date_____ Period_____

LESSON 3-2 · SESSION 1 · PRACTICE · FORM B

Understanding Unit Rates

Learning target – I can find a unit rate and use rate language such as "per hour" or "each." · 6.RP.A.2

REMEMBER

- **Per** means "for each." A **unit rate** is the amount for **1** unit.
- Divide the first amount by the second: 90 pages ÷ 6 minutes = 15 pages per minute.
- To predict, **multiply** the unit rate. To find a time or amount of units, **divide**.

WORKED EXAMPLE

A printer prints 90 pages in 6 minutes at a steady rate. How many pages in 7 minutes? How long for 45 pages?

Step 1 Divide: 90 ÷ 6 = 15 pages per minute.

Step 2 7 minutes: 15 × 7 = 105 pages.

Step 3 45 pages: 45 ÷ 15 = 3 minutes.

Answer **105 pages; 3 minutes**

WORDS **rate** *(tasa)* · **unit rate** *(tasa unitaria)* · **per** *(por)* · **constant** *(constante)*

PRACTICE

show your work · label units

1. Find each unit rate.

a. 91 words in 7 min = ___ per min

b. $72 for 8 hours = ___ per hour

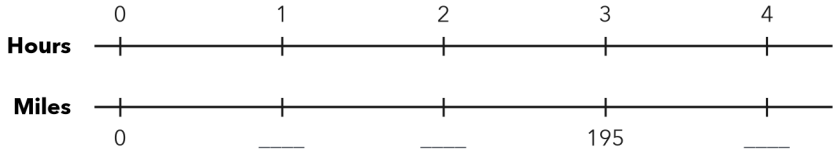
c. 112 miles on 4 gal = ___ per gal

d. 144 steps in 12 s = ___ per s

e. 84 beads on 6 bracelets = ___ each

f. 156 lb of soil in 6 beds = ___ per bed

2. **Charter Bus.** A charter bus travels 195 miles in 3 hours at a steady speed. Complete the double number line.



a. Unit rate: _____ mph

b. Miles in 4 hours: _____ miles

3. Lawn Mowing. Dylan earns $52 for mowing 4 lawns. What is his rate per lawn?

Hint *Divide dollars by lawns.*

Show your work.

Answer_____ per lawn

4. Juice Cost. A 12-pack of juice costs $9.00. Find the cost per bottle.

Show your work.

Answer_____ per bottle

5. Gas Mileage. A car travels 288 miles on 9 gallons of gas.

Hint *For part b, divide the miles by the miles per gallon.*

a. Miles per gallon: _____ mpg

b. Gallons needed for 352 miles: _____ gal

Show your work.

6. Running Practice. Mia runs 15 miles in 3 hours.

Hint *Time = distance ÷ speed.*

a. Speed: _____ mph

b. Time to run 20 miles at this pace: _____ hours

Show your work.

7. Two Jobs. Job A pays $60 for 8 hours. Job B pays $72 for 9 hours.

a. Hourly rate: Job A ___ Job B ___

b. Which pays more per hour, and by how much? _____

c. Total pay for 12 hours of Job B: _____ dollars

8. Printer Rate. A printer prints 312 pages in 8 minutes at a steady rate.

Hint *Find pages for 1 minute, then multiply by 12.*

a. Pages per minute: _____

b. Pages in 12 minutes: _____

FIND THE ERROR

explain the mistake, then fix it

9. Sofia's Work. A runner goes 24 miles in 4 hours. Sofia calculated 24 × 4 = 96 miles per hour. Explain her mistake and find the correct rate.

TEST PRACTICE

choose the best answer

10. A car travels 210 miles in 3 hours. The unit rate is –

A 630 miles per hour **B** 70 miles per hour

C 213 miles per hour **D** 1/70 mile per hour

11. 5 pens cost $2.00. The unit price is –

A $2.50 per pen **B** $10 per pen **C** $0.40 per pen **D** $2.00 per pen

SELF-CHECK CODE *find your answer · copy its letter into that problem's box · spell a math word*

28 C	5 R	$0.75 P	585 Z	32 A	39 E	45 Q	$13 M	65 O	$52 X

#1c	#2a	#3	#4	#5a	#6a	#8a

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #___