

NAME _____

Module 7 Ratio, Proportion, and Percent
Lesson 4 Ratios, Rates, and Proportional Reasoning

Independent Practice

7.4

1. A team won 14 games and lost 10 games. Write the ratio of wins to losses in simplest form.

2. There are 52 trucks and 120 cars parked in a parking lot. Write the ratio of trucks to cars as a fraction in simplest form.

Find the unit rate.

3. George ran four miles in 20 minutes.
4. Tori drove 156 miles in three hours.

Find the unit cost.

5. A box of eight bagels cost \$5.20.
6. A 46-minute call costs \$1.61.

7. A plant grew three inches in 10 weeks. At this rate, how much will it grow in 24 weeks?
8. Fishermen on one boat caught 14 fish in 2.5 hours. At this rate, how many fish will they catch in 10 hours?
9. Don can change two tires in 15 minutes.
Kade can change three tires in 20 minutes.
Use tables to determine who changes tires faster.

t = tires

Don	
<i>t</i>	<i>m</i>

m = minutes

Kade	
<i>t</i>	<i>m</i>

10. The car wash on Main Street can wash six cars in two hours. The car wash on First Avenue can wash 10 cars in four hours. Use unit rates to determine which car wash washes cars quicker.

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Journal

1. Tell why $\frac{5 \text{ chickens}}{4 \text{ chickens}}$ is not a rate. Give a ratio that is a rate.
2. Ronnie has to find the unit cost of an apple when a bag of 10 apples cost \$2.00. He does not know if he should divide 10 by \$2 or \$2 by 10. What would you tell him?
3. Marcia and Linda both make candles. The tables show how many candles each person makes in a given number of hours.

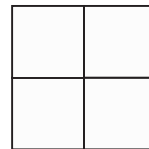
Marcia	
<i>candles</i>	<i>hours</i>
8	3
16	6
24	9
32	12
40	15
48	18
56	21
64	24

Linda	
<i>candles</i>	<i>hours</i>
5	2
10	4
15	6
20	8
25	10
30	12
35	14
40	16

- a. Explain two different ways you can use the tables to determine who makes candles at a faster rate.
- b. Explain how you can use unit rates to determine who makes candles at a faster rate.

Cumulative Review

1. The large square at right is made up of four smaller squares. The perimeter of the large square is 32 inches. Find the area of one small square.



Evaluate.

2. $\sqrt{25} - 1^2$

3. $10^2 + 11^2$

4. $7^2 - \sqrt{49}$

5. $13^2 + \sqrt{9}$

Find the decimal and percent equivalents.

6. $\frac{1}{5}$

7. $\frac{17}{20}$

8. $\frac{8}{9}$

9. $6\frac{3}{10}$

Additional Work Area