Name _____ Date _____

Lesson 4.3 Extra Practice

Find the unit rate. *Divide*

To find unit rate $y \div x$

1. 360 miles in 6 hours *60mi : 1hr*
2. 18 bowlers on 6 lanes *3 : 1*
3. $28 for 7 people *$4 : 1 person*
4. 100 books in 5 boxes *20 : 1 box books*
5. 24 cups for 4 people *6 cups : 1 pers*
6. 320 liters in 5 bottles *64 L : 1 bottle*
7. 96 feet in 12 seconds *8 ft : 1 sec*
8. 234 miles on 9 gallons *26mi : 1 gal*
9. $\frac{3}{4}$ quart per $\frac{1}{2}$ ounce *1½ qt : 1 oz*
10. 12 pounds for every 10 servings *1.2 lb : 1 serv*

Going from y to x ÷ unit rate

Find the missing values in the ratio table. Then write the equivalent ratios.

11.
x y÷x y

Minutes	2	4	10	16
Laps	1	2	5	8

(0.5)
4•0.5=
5÷0.5=
8÷0.5=

12.
x y

Servings	2	3	4	5
Protein (grams)	30	45	60	75

(15)
3•15=45
60÷15=4
75÷15=5

Going from x to y • unit rate

Tell whether the rates are equivalent. Justify your answer.

13. 9 miles for every $\frac{1}{2}$ hour *9÷½=18*

6 miles for every 20 minutes *6÷20=0.3 •60 =18*

yes

14. $\frac{2}{5}$ gram for every $\frac{3}{10}$ serving *⅖÷³⁄₁₀=1⅓*

$\frac{5}{2}$ grams for every $\frac{1}{5}$ serving *5⁄2 ÷ 1⁄5 =12½*

no

15. You run 3 miles in 24 minutes. What is your average rate of speed in miles per minute?

3÷24 = 0.125 mi : 1 min

16. Dishwasher detergent is sold in individual packets. You can buy a box of 20, 60, or 90 packets.

a. The 20-packet box sells for $5.49. What is the unit rate? *$0.27 per packet*

b. The 60-packet box sells for $10.97. What is the unit rate? *$0.18 per packet*

c. The 90-packet box sells for $18.95. What is the unit rate? *$0.21 per packet*

d. Which box is the best value? Explain your answer.

*60 packet box
The individual packet costs less than the others.*