

5.1 Exercises

12/14 THURSDAY
7th GRADE MATH
HOMEWORK

Check It Out
Help with Homework
BigIdeasMath.com

Vocabulary and Concept Check

- VOCABULARY** How can you tell when a rate is a unit rate?
- WRITING** Why do you think rates are usually written as unit rates?
- OPEN-ENDED** Write a real-life rate that applies to you.

Estimate the unit rate.

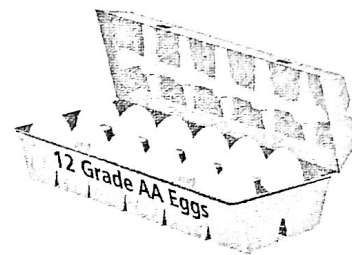
4. \$74.75



5. \$1.19



6. \$2.35



Practice and Problem Solving

Find the product. List the units.

7. $8 \text{ h} \times \frac{\$9}{\text{h}}$

8. $8 \text{ lb} \times \frac{\$3.50}{\text{lb}}$

9. $\frac{29}{2} \text{ sec} \times \frac{60 \text{ MB}}{\text{sec}}$

10. $\frac{3}{4} \text{ h} \times \frac{19 \text{ mi}}{\frac{1}{4} \text{ h}}$

Write the ratio as a fraction in simplest form.

11. 25 to 45

12. 63:28

13. 35 girls: 15 boys

14. 51 correct: 9 incorrect

15. 16 dogs to 12 cats

16. $2\frac{1}{3}$ feet: $4\frac{1}{2}$ feet

Find the unit rate.

17. 180 miles in 3 hours

18. 256 miles per 8 gallons

19. \$9.60 for 4 pounds

20. \$4.80 for 6 cans

21. 297 words in 5.5 minutes

22. $21\frac{3}{4}$ meters in $2\frac{1}{2}$ hours

Use the ratio table to find the unit rate with the specified units.

23. servings per package

24. feet per year

Packages	3	6	9	12
Servings	13.5	27	40.5	54

Years	2	6	10	14
Feet	7.2	21.6	36	50.4

25. **DOWNLOAD** At 1:00 P.M., you have 24 megabytes of a movie. At 1:15 P.M., you have 96 megabytes. What is the download rate in megabytes per minute?