

**P-7 Unit Rates**  
**Algebra**

Name \_\_\_\_\_ Per. \_\_\_\_\_

**Finding unit Rates**

When the denominator of a rate is 1, we call the rate a **unit rate**. We usually use the key word **per** or the division symbol / to indicate a unit rate. For example:

If a student earns \$8.50 per hour, it is the same as \$8.50/hour, and means \$8.50 for every 1 hour of work.

**Find each unit rate. Round your answer to the nearest hundredth.**

1. type 800 words in 12 minutes _____ words per minute	2. 192 students in 4 buses _____ in each bus
3. 357 miles in 5 hours _____ miles per hour	4. 8 ducks for \$23.60 \$_____ per duck
5. a 10-lb bag of cherries for \$33.49 _____ per lb	6. 12 chickens lay 30 eggs _____ eggs per chicken
7. Earn \$134 in 8 hours _____ per hour	8. 3 pizzas for \$19.99 _____ each
9. 3500 calories for 6 servings of pie _____ calories per serving	10. 351 chairs in 27 rows _____ chairs in each row
11. \$37.29 for 2 pairs of jeans. _____ each	12. \$37.29 for 2 pairs of ducks _____ per duck
13. 24 senior citizens in 12 RVs _____ in each RV	14. 7 penguins for \$188.88 _____ each

**Which is the better buy?**

15. A 12.5 oz bag of Doritos for \$3.79 or a 3 oz bag for \$1.00.

16. 12 bars of soap for \$10.00 or 5 bars of soap for \$4.00.

17. A box of 84 penguins for \$13,597 or a bag of 50 penguins for \$795.95.

18. 5 gallon bucket of paint for \$97.45 or a 1 gallon bucket of paint for 21.95.

19. 48oz big gulp for \$1.39 or a 32 oz coke for \$.89.

20. 50 head of cattle for \$24,500 or 37 head of cattle for \$18,870

**Use each unit rate to find the total.**

21. Caleb drives for 3 hours at 15 miles per hour. How far does he travel?
22. Larisa buys 5 hats at \$9.99 each. How much does she spend?
23. Meranda works for 7 hours at \$10.25 per hour. How much does she earn?
24. Luis writes a five page report with 250 words per page. How many words are in the report?
25. Richard owns 35 chickens and each one produces 3 eggs per day. How many eggs can he collect each day?

**For each problem below find the unit rate, then use the unit rate to answer the question.**

26. Jesus bought 3 pairs of jeans for \$71.40. How much would he need to pay for 8 pairs of jeans?

Unit rate \$\_\_\_\_\_per pair

Cost for 8 pairs \_\_\_\_\_

27. Morgan scored 41 points in 3 games. How many points would you expect him to make in an 11 game season.

Unit rate \_\_\_\_\_points/game

Points in 11 games\_\_\_\_\_

28. Andy drove 840 miles in 12 hours. How far could he drive in 3 hours?

Unit rate (speed) \_\_\_\_\_

Distance \_\_\_\_\_

29. Pira drives 825 miles to California. The trip takes him 17 hours. He uses 38 gallons of gas on the trip, which costs him \$125.

- Find his speed.
- Find his gas mileage.
- Find the unit price he paid for gas.