Name
Per. $\qquad$

## 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 $\qquad$ words per minute | 2. 192 students in 4 buses $\qquad$ in each bus |
| :---: | :---: |
| 3. 357 miles in 5 hours $\qquad$ miles per hour | 4. 8 ducks for $\$ 23.60$ <br> \$ $\qquad$ per duck |
| 5. a $10-\mathrm{lb}$ bag of cherries for $\$ 33.49$ $\qquad$ per lb | 6. 12 chickens lay 30 eggs $\qquad$ eggs per chicken |
| 7. Earn $\$ 134$ in 8 hours $\qquad$ per hour | 8. 3 pizzas for $\$ 19.99$ $\qquad$ each |
| 9. 3500 calories for 6 servings of pie $\qquad$ calories per serving | 10. 351 chairs in 27 rows $\qquad$ chairs in each row |
| 11. $\$ 37.29$ for 2 pairs of jeans. $\qquad$ each | 12. $\$ 37.29$ for 2 pairs of ducks $\qquad$ per duck |
| 13. 24 senior citizens in 12 RVs $\qquad$ in each RV | 14. 7 penguins for $\$ 188.88$ $\qquad$ 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 $\$ 97.45$ of a 1 gallon bucket of paint for 21.95 .
19. 48 oz 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 $\$$ $\qquad$ per pair

Cost for 8 pairs $\qquad$
27. Morgan scored 41 points in 3 games. How many points would you expect him to make in an 11 game season.

Unit rate $\qquad$ points/game

Points in 11 games $\qquad$
28. Andy drove 840 miles in 12 hours. How far could he drive in 3 hours?

Unit rate (speed) $\qquad$
Distance $\qquad$
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.

