

HW 7-1

Rates and Unit Rates

Unit 7

t 1

For problems #1-4, find each unit rate. Round to the nearest hundredth, if necessary.

1. 360 miles in 6 hours

The unit rate is 60 mph.

3. 45.5 meters in 13 seconds

The unit rate is $\frac{3.5 \text{ meters}}{1 \text{ second}}$.

2. 6,840 customers in 45 days

The unit rate is _____.

4. \$7.40 for 5 pounds

The unit rate is _____.

5. Find the unit rate for 12 pairs of socks that sell for \$5.79.

The unit rate will be \$0.48 per pair.

6. The results of a swim meet are shown. Who swam the fastest? EXPLAIN your reasoning.

Name	Event	Time (s)
Tawni	50-m Freestyle	40.8
Pepita	100-m Butterfly	60.2
Susana	200-m Medley	112.4

7. Ben can type 153 words in 3 minutes. At his rate, how many words can he type in 10 minutes?

510 words in 10 minutes

8. Kenji buys 3 yards of fabric for \$7.47. Then, he realizes he needs 2 more yards. How much will the extra fabric cost?

9. At Tire Depot, a pair of new tires sells for \$216. The manager's special advertises the same tires selling at a rate of \$380 for 4 tires. How much do you save if you purchase the manager's special?

You save \$13 per tire

10. Seth is trying to find the unit price for a package of blank CD's on sale at 10 for \$5.49. Find his mistake and correct it.

Seth's Work:
 $10 \div \$5.49$ means the CD's were \$1.82 each.

For problems #11-14, find the unit rate. Round to the nearest hundredth if necessary.

11. 150 people for 5 classes

The unit rate is 30 people per class.

13. \$1.12 for 8.2 ounces

The unit rate is $\$0.14$ per oz.

12. 815 calories in 4 servings

The unit rate is _____.

14. 144 miles on 4.5 gallons

The unit rate is _____.

15. A grocery store sells a 6-pack of bottled water for \$3.79, a 9-pack for \$4.50, and a 12-pack for \$6.89. Which package costs the least per bottle? EXPLAIN your reasoning.

Unit rate for 6-pack $\$0.63$ per bottle

Unit rate for 9-pack $\$0.50$ per bottle

Unit rate for 12-pack $\$0.57$ per bottle

Which package is the best deal and HOW do you know?

Best deal because it is cheapest per bottle.

16. Dalila earns \$108.75 for working 15 hours as a holiday helper wrapping gifts. At this rate, how much money will she earn if she works 18 hours this next week? Explain your answer in a sentence.

17. Mrs. Ross needs to buy dish soap. There are four different sized containers. Which brand costs the least per ounce?

Dish Soap Prices	
Brand	Price
Lots of Suds	\$0.98 for 8 ounces
Bright Wash	\$1.29 for 12 ounces
* Spotless Soap	\$3.14 for 30 ounces
Lemon Bright	\$3.45 for 32 ounces

*Show
work to
prove*

18. George spent \$2.00 for 20 pencils, Jamal spent \$1.50 for 10 pencils, and Samantha spent \$2.10 for 15 pencils. List the students from least to greatest according to unit price paid.