

Rate

Simplify each rate. Either complete a table or do the division in one step.

1. $\frac{95 \text{ cm}}{5 \text{ s}}$ _____

2. $\frac{48 \text{ km}}{4 \text{ L}}$ _____

3. $\frac{\$78}{6 \text{ hr}}$ _____

4. $\frac{400 \text{ km}}{8 \text{ hr}}$ _____

5. $\frac{\$3.69}{9 \text{ L}}$ _____

6. $\frac{196 \text{ people}}{7 \text{ boats}}$ _____

7. $\frac{170 \text{ people}}{5 \text{ buses}}$ _____

8. $\frac{84 \text{ students}}{4 \text{ teachers}}$ _____

9. $\frac{\$30}{4 \text{ hr}}$ _____

10. $\frac{28 \text{ problems}}{20 \text{ minutes}}$ _____

11. $\frac{180 \text{ revolutions}}{4 \text{ minutes}}$ _____

12. $\frac{56 \text{ pages}}{40 \text{ minutes}}$ _____

13. $\frac{\$18}{2 \text{ hours}}$ _____

14. $\frac{60 \text{ m}}{24 \text{ sec}}$ _____

15. Ann charged \$7.50 for 3 hours of gardening. What is her hourly rate?

18. Henry typed 486 words in 6 minutes. What is his typing rate in words per minute?

16. Carlos drove 160 km in 2.5 hours. How many kilometers did he travel per hour?

19. Terry picked 44 apples in 8 minutes. At what rate did Terry pick the apples?

17. Kara read 45 pages in 60 minutes. What is her reading rate in pages per minute?

20. Virginia charged \$18.75 for 5 hours of housecleaning. What was her rate?

Comparing Unit Prices

One way to find the better buy is to compare unit prices.
The **unit price** is the *cost per unit*.

Problem: A 6-pair package of tube socks costs \$4.50. A 4-pair package of tube socks costs \$2.85. Which is the better buy?

Divide the price by the number of units. Round to the nearest cent.



Compare.

$$\begin{array}{r} .75 = \$0.75 \\ 6 \overline{)4.50} \quad \text{per pair} \\ \underline{42} \\ 30 \\ \underline{30} \\ 0 \end{array}$$

$$\begin{array}{r} .712 = \$0.71 \\ 4 \overline{)2.850} \quad \text{per pair} \\ \underline{28} \\ 05 \\ \underline{4} \\ 10 \\ \underline{8} \end{array}$$

6 pairs for \$4.50 = \$0.75 per pair
4 pairs for \$2.85 = \$0.71 per pair
 $75\text{¢} > 71\text{¢}$
4 pairs for \$2.85 is the better buy.

Write the unit price for each item. Round to the nearest cent. Circle the better buy.

1. 10-oz bottle of shampoo
\$1.50

15-oz bottle of shampoo
\$2.49

2. 6-pack of drinks
\$1.98

12-pack of drinks
\$4.26

3. Fresh sweet corn
10 ears
\$1.25

4 ears
45¢

4. Macaroni and cheese dinner
3 boxes Brand A
\$1

2 boxes Brand B
\$0.75

5. American cheese
12-oz package
\$1.59

20-oz package
\$2.24

6. 22-oz jar of pickles
\$1.32

32-oz jar of pickles
\$2.24