Finding the Unit Rate

Name: _____	Date: _____	Score: _____ / 24

Quick Review

A **unit rate** tells you the amount for *exactly one* of something — one hour, one pound, one ticket. To find a unit rate, **divide the first quantity by the second**. For "120 miles in 3 hours," divide $120 \div 3 = 40$, so the unit rate is 40 miles per hour. Unit rates make it easy to **compare deals**: if one pack costs $\$0.50$ per pencil and another costs $\$0.40$ per pencil, the second is the better buy. A unit rate always has a 1 in the denominator.

◇ **Example:** A store sells 4 pounds of apples for $\$12$. Find the unit price.

⇒ A unit price is the cost for just *one* pound. To find it, we divide the total cost by the number of pounds: $\$12 \div 4$ pounds. That gives $\$3$ per pound. Here is a helpful check: if one pound is $\$3$, then 4 pounds would be $4 \times \$3 = \$12$, which matches. So the unit price is $\$3$ per pound.

Answer: $\$3$ per pound

PRACTICE

Find each unit rate.

1. 120 miles in 3 hours _____
2. $\$12$ for 4 pounds _____
3. 150 words in 5 minutes _____
4. 240 kilometers in 4 hours _____
5. 96 ounces in 8 cups _____
6. 350 miles on 7 gallons _____
7. 18 dollars for 3 hours _____
8. 100 meters in 8 seconds _____
9. $\$45$ for 9 tickets _____
10. 84 pages in 6 hours _____
11. 144 cookies in 12 trays _____
12. $\$56$ for 8 pounds _____
13. 270 miles in 6 hours _____
14. 132 liters in 11 minutes _____
15. $\$63$ for 7 shirts _____
16. 200 steps in 4 minutes _____
17. 168 miles in 8 hours _____
18. $\$90$ for 12 sandwiches _____
19. 315 apples in 9 crates _____
20. 216 heartbeats in 3 minutes _____

Word Problems

21. A 6-pack of juice boxes costs $\$5.40$. What is the cost per juice box? _____
22. Maya runs 12 miles in 2 hours. At this rate, how many miles does she run per hour? _____
23. Brand A sells 8 markers for $\$4.00$, and Brand B sells 5 markers for $\$3.00$. Which brand has the lower unit price? _____
24. A landscaping crew plants 96 flowers in 8 garden beds, sharing them equally. How many flowers go in each bed? _____

Answer Keys

1. 40 mi/h
2. $3 per pound
3. 30 words/min
4. 60 km/h
5. 12 oz/cup
6. 50 mi/gal
7. $6 per hour
8. 12.5 m/s
9. $5 per ticket
10. 14 pages/h
11. 12 cookies/tray
12. $7 per pound
13. 45 mi/h
14. 12 L/min
15. $9 per shirt
16. 50 steps/min
17. 21 mi/h
18. $7.50 per sandwich
19. 35 apples/crate
20. 72 beats/min
21. $0.90 per juice box
22. 6 miles per hour
23. Brand A ($0.50 vs. $0.60 per marker)
24. 12 flowers per bed

Step-by-Step Explanations

1. Divide $120 \div 3 = 40$ miles per hour.
2. Divide $12 \div 4 = 3$ dollars per pound.
3. Divide $150 \div 5 = 30$ words per minute.
4. Divide $240 \div 4 = 60$ kilometers per hour.
5. Divide $96 \div 8 = 12$ ounces per cup.
6. Divide $350 \div 7 = 50$ miles per gallon.
7. Divide $18 \div 3 = 6$ dollars per hour.
8. Divide $100 \div 8 = 12.5$ meters per second.
9. Divide $45 \div 9 = 5$ dollars per ticket.
10. Divide $84 \div 6 = 14$ pages per hour.
11. Divide $144 \div 12 = 12$ cookies per tray.
12. Divide $56 \div 8 = 7$ dollars per pound.
13. Divide $270 \div 6 = 45$ miles per hour.
14. Divide $132 \div 11 = 12$ liters per minute.
15. Divide $63 \div 7 = 9$ dollars per shirt.
16. Divide $200 \div 4 = 50$ steps per minute.
17. Divide $168 \div 8 = 21$ miles per hour.
18. Divide $90 \div 12 = 7.5$, so $7.50 per sandwich.
19. Divide $315 \div 9 = 35$ apples per crate.
20. Divide $216 \div 3 = 72$ beats per minute.
21. Divide the total by the number of boxes: $\$5.40 \div 6 = \$0.90$ per juice box.
22. Divide miles by hours: $12 \div 2 = 6$. Maya runs 6 miles each hour.
23. Brand A: $\$4.00 \div 8 = \$0.50$ per marker. Brand B: $\$3.00 \div 5 = \$0.60$ per marker. Brand A is cheaper per marker.
24. Divide flowers by beds: $96 \div 8 = 12$. Each bed gets 12 flowers.

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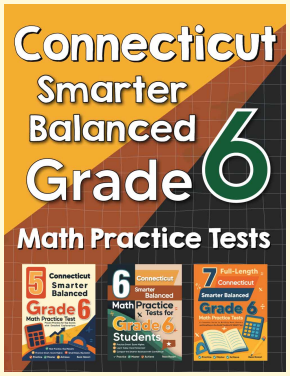

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