

11. Mixed Application — Worksheet C

Name: _____ **Class:** _____ **Date:** _____

Before solving, identify the two quantities, units, requested unit rate, and inverse check.

1. Store A sells 8 bottles for \$24. Find the unit price.

2. Store B sells 10 bottles for \$27. Which store has the better unit price?

3. A runner travels 18 km in 2 hours. Find the speed.

4. At that speed, how far will the runner travel in 5 hours?

5. A worker earns \$156 in 12 hours. Find the hourly wage.

6. At that wage, what is the pay for 20 hours?

7. Printer A produces 360 pages in 12 minutes. Printer B produces 270 pages in 9 minutes. Which is faster?

8. A machine makes 45 parts in 3 hours. How many parts per hour?

9. Create a rate problem where the larger total amount represents the better unit rate.

10. Explain why units are part of the answer, not decoration.

11. **What matters and what doesn't:** A factory runs 2 shifts a day, 6 days a week, and makes 480 parts in 8 hours. What is the production rate in parts per hour? Which details in this problem were not needed to answer it?

12. **Reconstruct the situation:** The equation $15 = 90 \div 6$ represents a real rate situation. Write a context for it, and explain what the 90, the 6, and the 15 each mean.
