

11. Mixed Application — Worksheet C

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

Before solving, label the quantities and select a method.

1. A recipe uses 5 cups of flour for 8 muffins. How much flour is needed for 24 muffins?

2. A worker earns \$104 in 8 hours. Find the pay for 13 hours.

3. A car travels 315 km in 5 hours. How far in 8 hours?

4. Solve $\frac{a}{b} = \frac{c}{d}$.

5. Solve $9:x = 3:5$.

6. Which method is best for $5:7 = 35:x$? Explain.

7. Explain why cross-products are not always the clearest method.

8. Create a proportion and solve it two ways.

9. A taxi charges \$4 plus \$2 per kilometre. Explain why a direct proportion is not appropriate.

10. Write a complete solution with a diagram, equation, and check.

11. **What matters and what doesn't:** A runner trains 2 hours a day, 5 days a week. She runs 12 km in 3 hours at a constant pace. How far will she run in 5 hours at that pace? Which details in this problem were not needed to answer it?

12. **Reconstruct the situation:** The equation $6x = 210$ represents a real proportion situation, with $x = 35$. Write a context for it, and explain what the 6, the 210, and the 35 each mean.
