

10. Mixed Application — Worksheet C

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

Before solving, identify the original ratio, scale factor, and preserved order.

1. Smoothie bananas:yogurt = 2:5. Complete the pairs for 2, 4, 6, and 10 bananas.

2. Paint red:yellow = 3:7. How much yellow is needed for 15 litres of red?

3. Adults:students = 1:8. How many adults are needed for 96 students?

4. Which of these are equivalent to 5:8: 10:16, 15:24, 20:33, 25:40?

5. A row 8:29 appears in a table for 2:7. Explain the error.

6. A recipe uses 5 cups flour for every 2 cups sugar. How much flour is needed with 8 cups sugar?

7. A map uses a scale of 1:4. Write three equivalent ratios.

8. A student multiplies the first part by 3 and the second part by 2. Explain why the relationship changes.

9. Create a ratio table with four rows for a real context.

10. Explain how simplifying can be used to test whether two ratios are equivalent.

11. **What matters and what doesn't:** A recipe uses sugar:butter = 3:5. The kitchen has 2 ovens and the recipe bakes for 45 minutes. If 12 cups of sugar are used, how much butter is needed? Which details in this problem were not needed to answer it?

12. **Reconstruct the situation:** The ratio 4:6 scaled to 20:30 represents a real situation. Write a context for it, and explain what the scale factor is and what it means.
