

11. Mixed Application — Worksheet C

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

Before solving, name the quantities, order, total parts, and unit size.

1. A drink mix has syrup:water = 1:5. What fraction is syrup?

2. A class has Grade 7:Grade 8 = 3:4, with 56 students. How many are in Grade 7?

3. A paint mix has red:white = 2:5, with 28 litres. How much white paint is needed?

4. A student reverses 2:9 to 9:2. Explain why this changes the meaning.

5. A team has adults:children = 5:9 and 42 people. How many adults and how many children?

6. A basket has apples:oranges = 3:7. What fraction of the fruit is oranges?

7. A class is split into two groups in the ratio 4:5. One group has 20 students. How many students are in the other group?

8. Create and solve a real-world ratio-with-total problem.

9. Create a part-to-part ratio, then write both part-to-whole fractions.

10. Explain how a tape diagram checks your answer to one problem.

11. **What matters and what doesn't:** A school club has members:volunteers = 3:8, meeting twice a week over 5 weeks, with 22 people total across both roles. How many are members? Which details in this problem were not needed to answer it?

12. **Reconstruct the situation:** The ratio 2:5 describes a group of 35 people. Write a context for it, and explain what the 2, the 5, and the 35 each mean.
