

11. Mixed Application — Worksheet C

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

Before solving, identify the action, the quantities, and the units.

1. A hiker walks km in the morning and km in the afternoon. How far altogether?

2. A tank is full and of the tank is drained. How much remains?

3. A batch is scaled by ; the original amount is 40 g. How much is used?

4. Six litres are poured into bottles holding litre. How many bottles are filled?

5. Three litres are shared equally among five people. How much does each person receive?

6. A student says $\div =$. Diagnose the error and solve correctly.

7. A class uses litre of paint for one poster. How much paint is needed for of a poster? Explain the meaning of the multiplication.

8. Write one context for each of the four operations.

9. Solve $+$ in two ways and compare the methods.

10. Explain why dividing by a number less than 1 can produce an answer greater than the starting number.

11. **What matters and what doesn't:** A painter uses $\frac{1}{2}$ gallon of paint per room. The house has 12 rooms in total, and the painter finishes 5 rooms over 3 days. How much paint was used for those 5 rooms? Which details in this problem were not needed to answer it?

12. **Reconstruct the situation:** The expression $\frac{1}{2} \times \frac{1}{3}$ represents a real situation. Write a context for this expression, and explain what action (joining, separating, scaling, sharing, or grouping) it describes.
