Word Problems on Fractions

Understanding Word Problems on Fractions

- Word problems with fractions involve real-life situations where parts of a whole are used.
- We use addition, subtraction, or comparison of fractions to solve them.
- Most word problems use like fractions (same denominators) in Class 4.
- Always read the question carefully and understand what is being asked.
- Write the correct fraction and solve using proper steps.

Steps to Solve Word Problems

- Step 1: Read the question carefully
- Step 2: Identify the fractions and operation (add, subtract, etc.)
- Step 3: Solve step by step
- Step 4: Write the final answer clearly

Mixed Examples with Solutions

Example: Rina ate $\frac{2}{5}$ of a cake and her friend ate $\frac{1}{5}$. How much cake did they eat together?

Solution: $\frac{2}{5} + \frac{1}{5} = \frac{3}{5}$ Answer: They ate $\frac{3}{5}$ of the cake together

Example: Ravi read $\frac{4}{7}$ of a book on Monday and $\frac{2}{7}$ on Tuesday. How much did he read in total?

Solution: $\frac{4}{7} + \frac{2}{7} = \frac{6}{7}$ Answer: He read $\frac{6}{7}$ of the book

Example: A bottle had $\frac{5}{6}$ liter of juice. $\frac{2}{6}$ liter was used. How much juice is left? **Solution:** $\frac{5}{6} - \frac{2}{6} = \frac{3}{6} = \frac{1}{2}$

Answer: $\frac{1}{2}$ liter of juice is left

Example: Meena used $\frac{3}{8}$ meter of ribbon for one gift and $\frac{4}{8}$ meter for another. How much ribbon did she use in total?

Solution: $\frac{3}{8} + \frac{4}{8} = \frac{7}{8}$ **Answer:** She used $\frac{7}{8}$ meter of ribbon

Example: A tank was $\frac{6}{10}$ full. $\frac{3}{10}$ of the water was used. How much water is left? **Solution:** $\frac{6}{10} - \frac{3}{10} = \frac{3}{10}$ **Answer:** $\frac{3}{10}$ of the tank is still full

Summary Points

- Word problems on fractions relate to real-life use of parts.
- Use addition or subtraction of like fractions to solve them.
- Always keep the denominator same and operate on the numerators.
- Final answers should be clear and simplified if needed.
- Practice helps in understanding and solving fraction problems confidently.