Addition and Subtraction of Unlike Fractions

1. **Add the following unlike fractions.**

    i. $\dfrac{4}{25} + \dfrac{7}{25}$ ☐

    ii. $\dfrac{3}{21} + \dfrac{6}{7}$ ☐

    iii. $\dfrac{12}{15} + \dfrac{13}{20} + \dfrac{3}{5}$ ☐

    iv. $\dfrac{7}{9} + \dfrac{4}{12} + \dfrac{8}{15}$ ☐

1. **Subtract the following unlike fractions:**

    i. $\dfrac{9}{14} - \dfrac{2}{21}$ ☐

    ii. $\dfrac{12}{17} - \dfrac{1}{2}$ ☐

    iii. $\dfrac{16}{35} - \dfrac{9}{20}$ ☐

    iv. $\dfrac{14}{15} - \dfrac{3}{5}$ ☐

2. **Find the sum**

    a. $3\dfrac{4}{5} + 13\dfrac{2}{7}$ ☐

    b. $1\dfrac{2}{5} + 7\dfrac{2}{8}$ ☐

    c. $4\dfrac{1}{3} + 4\dfrac{1}{5} + 8\dfrac{1}{6}$ ☐

3. **Find the difference**

    a. $9\dfrac{5}{8} - 7\dfrac{4}{9}$ ☐

    b. $3\dfrac{2}{9} - 1\dfrac{7}{8}$ ☐

    c. $8\dfrac{2}{5} - 3\dfrac{1}{4}$ ☐

4. **Simplify**

    a. $4\dfrac{1}{10} - 2\dfrac{3}{5} + 3\dfrac{1}{8}$ ☐

    b. $6\dfrac{1}{2} + 2\dfrac{3}{3} + 1\dfrac{1}{4}$ ☐

    c. $9\dfrac{1}{5} - 2\dfrac{3}{4} + 2\dfrac{7}{10}$ ☐

5. **Simplify**

    (i) $3\dfrac{2}{7} + \dfrac{1}{7} - 2\dfrac{3}{7}$ _____

    (ii) $6 - \dfrac{1}{3} - 3\dfrac{3}{5} + 5\dfrac{1}{6}$ _____

6. Sanjana has 28 oranges. She eats $\frac{1}{7}$ of them.

   a. How many oranges does she eat?_____ .

   b. How many oranges are left with her?_____ .

7. Mary has 30 toffees. She gives $\frac{1}{6}$ of them to Sarika and $\frac{1}{5}$ of them to Srishti. The rest she keeps with herself. How many toffees does she have with her?

8. Arjun bought 8 litres of petrol. He used $3\frac{1}{2}$ litres of petrol in his car and $2\frac{1}{9}$ litres in his bike. How much petrol was used? How much petrol was left?

9. Out of 40 students in a class, $\frac{1}{8}$ like pepsi, $\frac{3}{4}$ liked Coke, two students like Marinda and remaining students did not like any drink?

10. A 5 metres long piece of rope was cut into two pieces. If one piece was $1\frac{1}{4}$ metres long find the length of other piece?

11. Param was given $1\frac{1}{2}$ piece of cake and Saloni was given $2\frac{1}{3}$ piece of cake.Find the total amount of cake given to both of them.

12. Rajneet swims for $8\frac{1}{2}$ hours during the school week and $6\frac{3}{4}$ hours on weekends. How much time does he swim each week in all?

13. Kareena bought $2\frac{2}{5}$ metre of ribbon and Amina $3\frac{1}{4}$ metre of ribbon. What is the total length of the ribbon they bought?

14. A $9\frac{1}{2}$ metres long piece of rope was cut into two pieces. If one piece was $6\frac{3}{4}$ metres long, find the length of other piece.

15. Ketan had Rs. 50 He spent half of his pocket money in buying chocolates and, one-third of it in buying pencils and erasers. What part of money is still left with him?

16. A fraction is added to $\frac{1}{3}$, we get $\frac{3}{7}$. Find the fraction.

17. A squirrel climbed up $\frac{3}{5}$ of a pole but is slipped down $\frac{1}{6}$ of the pole. What part of the pole did it finally climb?

18. Mrs Kanta knits $\frac{1}{4}$ of a sweater on Tuesday. On Wednesday she knits another $\frac{1}{6}$ part of the sweater. What part of the sweater was weaved by her during both the days?