Sub:Maths class-7 Topic-Addition and Subtraction of fractions

Do all questions of Ex-2.2 ,one of each type is done for you.

## EXERCISE 2.2

## Use Cordova Smart Class Software on the smart board in class to do Exercise

1. Add
(i) $\frac{5}{9}+\frac{7}{9}$
(ii) $\frac{3}{5}+\frac{7}{4}$
(iii) $\frac{3}{4}+1$
(iv) $\frac{4}{7}+\frac{11}{14}$
2. Find the difference
(i) $\frac{5}{7}-\frac{3}{7}$
3. Find the sum
(ii) $\frac{11}{16}-\frac{7}{12}$
(iii) $\frac{7}{9}-\frac{2}{3}$
(iv) $\frac{15}{19}-\frac{12}{57}$
(8) $3 \frac{1}{9}+1 \frac{5}{6}$
(ii) $3 \frac{1}{3}+5 \frac{2}{7}$
(iii) $12 \frac{3}{5}+1 \frac{3}{5}$
(iv) $10 \frac{1}{9}+6 \frac{5}{12}$
4. Simplify :
(i) $3-\frac{7}{6}+\frac{11}{12}$
(ii) $4 \frac{6}{7}-2 \frac{2}{3}-\frac{20}{21}$
(iii) $5 \frac{1}{6}-3 \frac{1}{4}+2 \frac{1}{3}$
(iv) $10 \frac{3}{5}+2 \frac{5}{6}-5 \frac{3}{5}$
5. What should be added to $\frac{11}{48}$ to get $\frac{13}{16}$ ?
6. Which is greater : $\frac{2}{3}$ or $\frac{7}{9}$ ? By how much?
7. What should be added to $3 \frac{1}{2}$ to get $8 \frac{1}{4}$ ?
8. A rectangular field is $15 \frac{2}{3} \mathrm{~m}$ long and $12 \frac{4}{5} \mathrm{~m}$ wide. Find its perimeter.
9. The sum of two numbers is 7 . If one of the numbers is $\frac{11}{7}$, find the other.
10. A piece of wire is of length $8 \frac{1}{4} \mathrm{~m}$. It is cut into two pieces. The length of one piece is $4 \frac{3}{5} \mathrm{~m}$. What is
the length of the other piece?
11. The sides of a triangle are $\frac{7}{2} \mathrm{~cm}, \frac{11}{4} \mathrm{~cm}$ and $\frac{16}{5} \mathrm{~cm}$. Find its perimeter.

CLASS -7
Exercise - 2-2.
ADDITION AND SUBTRACTION OF FRACTIONS

1. Add:
(i) $\frac{5}{9}+\frac{7}{9}=\frac{5+7}{9}$ (Add like fractions $=\frac{12}{9}$ And retain

$$
=\frac{4}{3}=1 \frac{1}{3} \text { Ansi. }
$$

2. Find the difference:
(i) $\frac{5}{7}-\frac{3}{7}=\frac{5-3}{7}=\frac{2}{7}$ Ans
(ii) $\frac{11}{16}-\frac{7}{12}$

$$
=\frac{33-7 \times 4}{48}
$$

L.C.M. of 16 and 12

$$
=\frac{33-28}{48}
$$

$$
=\frac{5^{18}}{48}
$$

| 2 | 16,12 |
| :---: | :---: |
| 2 | 8,6 |
| 2 | 4,3 |
| 2 | 2,3 |
| 3 | 1,3 |
|  | 1,1 |
| $c \cdot m=48$ |  |

3. Find the Sum?

$$
\begin{array}{rl} 
& 3 \frac{1}{9}+1 \frac{5}{6}=\frac{28}{9}+\frac{11}{6}=\frac{3}{3} \frac{9,6}{3,2} \\
= & \frac{28}{98}+\frac{11}{6} \\
= & \frac{56+33}{18}=\frac{89}{18}=8 \frac{1}{18} \text { Ans. of } 9,6 \frac{2}{1,2} \\
=3+3+2 & 11 \\
& 18
\end{array}
$$

E-2•2
4. Simplify FRA
(i) $\frac{3}{1}-\frac{7}{6}+\frac{11}{12}$

$$
=\frac{36-14+11}{12}
$$

$$
=\frac{22+11}{12}
$$



Ans. 8 Length of rectongular firld is $15 \frac{2}{3} \mathrm{~m}$. Breadth of reetanghlar fied is $=12 \frac{4}{5} \frac{3}{3} \mathrm{~m}$ wide perimeter of filld $=2[$ Cangth + Brieadsh $]$

$$
\begin{aligned}
& =2\left[15 \frac{2}{3}+12 \frac{4}{5}\right] \mathrm{m} \\
& =2\left[\frac{47}{3}+\frac{64}{5}\right] \\
& =2 \times\left[\frac{47 \times 5+64+3}{15}\right] \quad \begin{array}{c}
\text { L.c-m of } \\
\text { 3) }
\end{array} \\
& \begin{array}{l}
=2 \times\left[\frac{235+192}{15}\right] \quad \frac{3 \times 427}{15} \quad \frac{3,5}{15} \\
=\frac{111}{15}
\end{array} \\
& =\frac{854}{15}=56 \frac{14}{15} \mathrm{~m} \text { Ans. }
\end{aligned}
$$

