Class:-4- Subject-Math

Addition of fractions

Addition of like fractions

Ques:-1⇒ Add $\frac{3}{7}$ and $\frac{2}{7}$

Solve:⇒ $\frac{3}{7} + \frac{2}{7}$

To add like fractions, we simply add their numerators and write the common denominator.

$$\frac{3}{7} + \frac{2}{7} = \frac{3+2}{7} = \frac{5}{7} \text{ Ans}$$

Ques:-2⇒ Add $\frac{3}{8}$, $\frac{2}{8}$, and $\frac{1}{8}$.

Solve:⇒ $\frac{3}{8} + \frac{2}{8} + \frac{1}{8}$

$$\frac{3+2+1}{8} = \frac{6}{8}$$

But $\frac{6}{8}$ is not in the lowest term

So, we first find the H.C.F of 6 and 8.

2	6
3	3
	1

2	8
2	4
2	2
	1

H.C.F of 6 and 8 = 2

$6 = (2) \times 3$

$8 = (2) \times 2 \times 2$

H.C.F = 2

$$\frac{6}{8} = \frac{6 \div 2}{8 \div 2} = \frac{3}{4}$$

Thus, $\frac{3}{8} + \frac{2}{8} + \frac{1}{8} = \frac{3}{4}$ Ans

Addition of Unlike fractions

Ques:1⇒ Add $\frac{2}{3}$ and $\frac{1}{5}$.

Solve:⇒ $\frac{2}{3}$ and $\frac{1}{5}$ are unlike fractions. We will first convert them into like fractions.

L.C.M of 3, and 5 = 15

3	3, 5
5	1, 5
	1, 1

L.C.M = 3 × 5 = 15

$$\frac{2}{3} = \frac{2 \times 5}{3 \times 5} = \frac{10}{15}$$

$$\frac{1}{5} = \frac{1 \times 3}{5 \times 3} = \frac{3}{15}$$

Now, $\frac{2}{3} + \frac{1}{5} = \frac{10}{15} + \frac{3}{15}$

$$= \frac{10 + 3}{15}$$

$$= \frac{13}{15}$$

Thus-

$$\frac{2}{3} + \frac{1}{5} = \frac{13}{15}$$ Ans

H.W

Complete Exercise-6 - Question Number 2 and 3 (All).