Subject: MATHS   11.07.2020

Class 5

Lesson: 7 C Adding and subtraction of Fractions numbers

Dear students,

Now you are known to Fractions and you are also changing mix Fractions into improper Fractions. You are also reducing Fractions in its lowest terms. You also are making Equivalent Fractions.
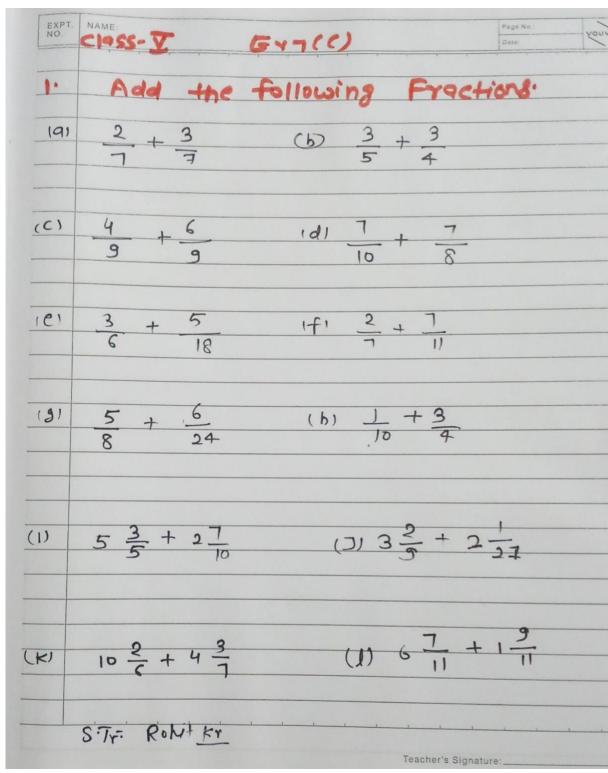
Today you are going to learn adding and subtraction of Fractions.

Adding and Subtraction of fractions

Proceeding :—

1. Find the L·C·M of the denominator.

2. Change them into equivalent fractions with this L·C·M as their common denominator.

3. Now add or subtract them just like we add.

Ex→ (a) **Add** $\frac{2}{11}$, $\frac{3}{11}$, and $\frac{4}{11}$

Since, denominator is same so no need to find L·C·M.

$$\Rightarrow \quad \frac{2}{11} + \frac{3}{11} + \frac{4}{11} = \frac{2+3+4}{11} = \frac{9}{11} \quad As$$

(b) subtract $\frac{7}{15}$ **from** $\frac{14}{15}$

$$:\rightarrow \quad \frac{14}{15} - \frac{7}{15} = \frac{14-7}{15} = \frac{7}{15} \quad As$$

Class-V

Ex- Add $2\frac{3}{5}$, $2\frac{7}{10}$ and $6\frac{5}{12}$

Solve :→ first convert mix number into improper fraction.

$2\frac{3}{5} = \frac{13}{5}$	= Improper fraction:
	$\frac{13}{5} = \frac{13 \times 12}{5 \times 12} = \frac{156}{60}$
$2\frac{7}{10} = \frac{27}{10}$	
	$\frac{27}{10} = \frac{27}{10} \times \frac{6}{6} = \frac{162}{60}$
$6\frac{5}{12} = \frac{65}{12}$	
	$\frac{65}{12} = \frac{65 \times 5}{12 \times 5} = \frac{385}{60}$

Now, we have found Improper fraction means same denominator.

Thus, $2\frac{3}{5} + 2\frac{7}{10} + 6\frac{5}{12}$

$\Rightarrow \frac{156}{60} + \frac{162}{60} + \frac{385}{60}$

$\Rightarrow \frac{156 + 162 + 385}{60}$

$\Rightarrow \frac{703}{60} = 11\frac{43}{60}$ Aq

Method I :→

$$2\frac{3}{5} + 2\frac{7}{10} + 6\frac{5}{12}$$

$$\Rightarrow (2+2+6) + \left(\frac{3}{5} + \frac{7}{10} + \frac{5}{12}\right) \quad \text{(changed into improper fraction)}$$

$$\Rightarrow 10 + \left(\frac{36}{60} + \frac{42}{60} + \frac{45\ 25}{60}\right) \quad [\text{L.c.m of } 3,7,5 = 60]$$

$$= 10 + \left(\frac{36 + 42 + 25}{60}\right)$$

$$\Rightarrow 10 + \frac{103}{60}$$

$$\Rightarrow 10 + 1\frac{43}{60} \quad (\text{changed into mix Number})$$

$$\Rightarrow (10 + 1) + \frac{43}{60}$$

$$\Rightarrow 11\frac{43}{60} \quad \underline{As}$$

Class- V   **G+7(C)**

1.   **Add the following Fractions.**

(a) $\dfrac{2}{7} + \dfrac{3}{7}$ (b) $\dfrac{3}{5} + \dfrac{3}{4}$

(c) $\dfrac{4}{9} + \dfrac{6}{9}$ (d) $\dfrac{7}{10} + \dfrac{7}{8}$

(e) $\dfrac{3}{6} + \dfrac{5}{18}$ (f) $\dfrac{2}{7} + \dfrac{7}{11}$

(g) $\dfrac{5}{8} + \dfrac{6}{24}$ (h) $\dfrac{1}{10} + \dfrac{3}{4}$

(i) $5\dfrac{3}{5} + 2\dfrac{7}{10}$ (J) $3\dfrac{2}{9} + 2\dfrac{1}{27}$

(K) $10\dfrac{2}{6} + 4\dfrac{3}{7}$ (l) $6\dfrac{7}{11} + 1\dfrac{9}{11}$

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