ASSIGNMENT 25

STD IV

MATHEMATICS

CHAPTER 9 FRACTIONS

Do the following assignment in your Maths copy.

1. Subtract the following :

Eg. $\frac{8}{9} - \frac{5}{9}$		
Solu: $\frac{8-5}{9}$		
$=\frac{3}{9}$		
$= \frac{3 \div 3}{9 \div 3}$		
$=$ $\frac{1}{3}$		
a) $\frac{16}{17}$ - $\frac{14}{17}$	b) $\frac{16}{28}$ - $\frac{8}{28}$	c) $\frac{23}{47}$ - $\frac{13}{47}$

2. Fill in the blanks :

Eg.1
$$\frac{10}{19} - \frac{-}{19} = \frac{2}{19}$$

Solu: $\frac{10}{19} - \frac{2}{19}$
 $= \frac{10 - 2}{19}$
 $= \frac{8}{19}$
Ans. 8

Eg.2:
$$\frac{-}{15} - \frac{2}{15} = \frac{6}{15}$$

Solu: $\frac{6}{15} + \frac{2}{15}$
 $= \frac{6+2}{15}$
 $= \frac{8}{15}$
Ans. 8
a) $\frac{11}{17} - \frac{-}{17} = \frac{8}{17}$
b) $\frac{21}{43} - \frac{-}{43} = \frac{16}{43}$

c) $\frac{-}{28}$ - $\frac{5}{28}$ = $\frac{15}{28}$

3. Subtract the following :

Eg. : $\frac{5}{6} - \frac{8}{15}$ Solu : L.C.M of 6 and 15 = 30 $\frac{2}{6} - \frac{3}{15}$ $\frac{2}{3} - \frac{6}{3} - \frac{3}{15} + \frac{5}{5} - \frac{5}{11}$ $\frac{5}{6} = \frac{5 \times 5}{6 \times 5} = \frac{25}{30}$ $\frac{8}{15} = \frac{8 \times 2}{15 \times 2} = \frac{16}{30}$ L.C.M = 2X3X5

= 30

$$\frac{25}{30} - \frac{16}{30}$$

$$= \frac{25 - 16}{30}$$

$$= \frac{9}{30}$$

$$= \frac{9 \div 3}{30 \div 3}$$

$$= \frac{3}{10}$$
a) $\frac{7}{9} - \frac{11}{15}$ b) $\frac{11}{36} - \frac{2}{9}$ c) $\frac{17}{25} - \frac{7}{15}$
4. Solve the following sums:
Eg. In a container $3\frac{1}{2}$ litres of milk was kept . If
 $1\frac{1}{2}$ litres of milk was used . Find how much
milk is left over?
Solu: Litres of milk kept in a container $= 3\frac{1}{2}$ or $\frac{7}{2}$
Litres of milk was used $= 1\frac{1}{2}$ or $\frac{3}{2}$
Litres of milk left $= \frac{7}{2} - \frac{3}{2}$
 $= 2$

Ans. 2 litres of milk is left.

<u>Working</u>

 $\frac{7}{2} - \frac{3}{2} = \frac{7-3}{2} = \frac{4 \div 2}{2 \div 2} = \frac{2}{1}$

- a) Two strings of length $4\frac{1}{2}$ m and $3\frac{1}{2}$ m are joined. What is the total length of the joined string ?
- b) Mr. Sharma spent $\frac{5}{7}$ of his income. Find how money did he save?

Hint: $1 - \frac{5}{7}$ or $\frac{1}{1} - \frac{5}{7}$ L.C.M of 1 and 7 is 7 $\frac{1X7}{1X7} - \frac{5X1}{7X1}$ $= \frac{7 - 5}{7}$ $= \frac{2}{7}$