Class: 4
Subject : Mathematics
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Lecture: 6

Solution

Creative question:

Q 1. Solution:

(1) Solution: **Sabuj's house is $\frac{3}{8}$ km to the west of the school**

Mitu's house is $\frac{5}{12}$ km to the east of the school

$\therefore$ **The school is from Sabuj's house to Mitu's house** $= \left(\frac{3}{8} + \frac{5}{12}\right)$ **km**

$= \left(\frac{9}{24} + \frac{10}{24}\right)$ **km** | **Here, L.C.M** $= 24$

$= \frac{19}{24}$ **km**

Ans: The school is from Sabuj's house to Mitu's house $\frac{19}{24}$ km.

(2) Solution: **Sabuj's house is $\frac{3}{8}$ km** $= \frac{9}{24}$ **km**

Mitu's house is $\frac{5}{12}$ km $= \frac{10}{24}$ **km**

Here, $\frac{9}{24} < \frac{10}{24}$

$\therefore$ **Sobuj's house is nearer to school.**

Ans: Sobuj's house is nearer to school.

(3) Solution: **Difference** $= \left(\frac{5}{12} - \frac{3}{8}\right)$ **km**

$$= \left(\frac{10}{24} - \frac{9}{24}\right) \textbf{ km}$$

$$= \frac{1}{24} \textbf{ km}$$

Here, L.c.m=24

Ans: Difference $\frac{1}{24}$ **km.**

Q 2. Solution:

(1) Solution: A farmer planted in a garden,

$$\textbf{Brinjal} = \frac{1}{2} \textbf{ part}$$

$$\textbf{Cabbage} = \frac{1}{4} \textbf{ part}$$

$$\textbf{Flowers} = (+)\frac{1}{5} \textbf{ part}$$

$$\textbf{He planted all} = \frac{19}{20} \textbf{ part}$$

Calculation: A farmer planted all $= \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{5}\right)$ **part**

$$= \left(\frac{10}{20} + \frac{5}{20} + \frac{4}{20}\right) \textbf{ part}$$

$$= \frac{19}{20} \textbf{ part}$$

Here, L.C.M.=20

Ans: A farmer planted all $\frac{19}{20}$ **part.**

(2) Solution: Let, whole garden is $= 1$**.**

A farmer planted $\frac{19}{20}$ **part in his garden.**

$$\textbf{The garden remained blank} = \left(1 - \frac{19}{20}\right) \textbf{ part}$$

$$= \left(\frac{20 - 19}{20}\right) \textbf{part}$$

$$= \frac{1}{20} \textbf{ part}$$

Ans: The garden remained blank $\frac{1}{20}$ **part.**

Q 3. Solution:

(1) Solution: Riad spends on,

$$\textbf{Sleeping} = \frac{1}{5}\ \textbf{part}$$

$$\textbf{Playing} = \frac{1}{10}\textbf{part}$$

$$\textbf{Studying} = \frac{4}{10}\ \textbf{part}$$

(+)

$$\textbf{Total work} = \frac{7}{10}\ \textbf{part}$$

Calculation,

$$\textbf{Total work of a week} = \left(\frac{1}{5}+\frac{1}{10}+\frac{4}{10}\right)\ \textbf{part}$$

$$= \left(\frac{1}{10}+\frac{1}{10}+\frac{4}{10}\right)\ \textbf{part}$$

$$= \frac{7}{10}\ \textbf{part}$$

Ans: Riad spends for total work $\frac{7}{10}$ part.

(2) Solution: Riad spends on,

$$\textbf{Sleeping} = \frac{1}{5}\ \textbf{part}$$

$$\textbf{Playing} = \frac{1}{10}\textbf{part}$$

(+)

$$\textbf{Total work} = \frac{3}{10}\ \textbf{part}$$

Calculation,

$$\textbf{Total work on sleeping and playing of a week} = \left(\frac{1}{5}+\frac{1}{10}\right)\ \textbf{part}$$

$$= \left(\frac{2}{10}+\frac{1}{10}\right)\ \textbf{part}$$

$$= \frac{3}{10}\ \textbf{part}$$

Ans: **Riad spends on sleeping and playing $\frac{3}{10}$ part.**

(3) Solution: Riad spends on,

$$\textbf{Studying} = \frac{4}{10} \textbf{ part}$$

$$\textbf{Playing} = \frac{1}{10} \textbf{part}$$

(+)

$$\textbf{Total work} = \frac{5}{10} \textbf{ part}$$

Calculation,

$$\textbf{Total work on studying and playing of a week} = \left(\frac{4}{10} + \frac{1}{10}\right) \textbf{ part}$$

$$= \frac{\cancel{5}^{\,1}}{\cancel{10}_{\,2}} \textbf{ part}$$

$$= \frac{1}{2} \textbf{ part}$$

Ans: **Riad spends on studying and playing $\frac{1}{2}$ part.**

(4) Solution: Riad studies more than playing $= \left(\frac{4}{10} - \frac{1}{10}\right)$ **part**

$$= \frac{3}{10} \textbf{ part}$$

Ans: **Riad studies more than playing $\frac{3}{10}$ part.**