Cosmo School

Class: 4
Subject : Mathematics
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Lecture no 5

Solution

Word Problem

Note 1:

Solution: **Container A has $\frac{1}{2}$ litre of water**

Container B has $(+)\frac{1}{3}$ litre of water

Total $= \frac{5}{6}$ litre of water

Calculation,

$$\frac{1}{2}+\frac{1}{3}=\frac{3}{6}+\frac{2}{6}$$
$$=\frac{5}{6}$$

Ans: **Total $\frac{5}{6}$ litre of water.**

Note 2:

Solution: **Total milk has $\frac{2}{3}$ litre**

You have taken milk $(-)\frac{1}{4}$ litre

Remaining milk $= \frac{5}{12}$ litre

Calculation,

$$\frac{2}{3}-\frac{1}{4}=\frac{8}{12}-\frac{3}{12}$$
$$=\frac{5}{12}$$

Ans: **Remaining $\frac{5}{6}$ litre of milk.**

Exercise 1

Solution: Mr. Afjal bought,

$$\textbf{Rice} = \frac{1}{2}\ \textbf{portion}$$

$$\textbf{Vegetables} = \frac{3}{10}\ \textbf{portion}$$

$$\textbf{Fruits} = (+)\frac{1}{10}\ \textbf{portion}$$

$$\textbf{Total} = \frac{9}{10}\ \textbf{portion}$$

Ans: He spent $\frac{9}{10}$ **portion in total money.**

Calculation,

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

$$=\frac{9}{10}$$

Exercise 2:

Solution: Ribbon length is $= \frac{13}{25}$ **metre**

$$\textbf{Cutting ribbon length is} = (-)\frac{2}{5}\ \textbf{metre}$$

Remaining ribbon length is $= \frac{3}{25}$ **metre**

Ans: Remaining ribbon length is $\frac{3}{25}$ **metre**

Calculation,

$$\frac{13}{25}-\frac{2}{5}=\frac{13}{25}-\frac{10}{25}$$

$$=\frac{3}{25}$$

Exercise 3:

Solution: Anika got $= \frac{1}{3}$ **part of bread**

$$\textbf{Ayra got} = (+)\frac{4}{3}\ \textbf{part of bread}$$

$$\textbf{They got total} = \frac{5}{3}\ \textbf{part of bread}$$

Calculation,

$$\frac{1}{3}+\frac{4}{3}=\frac{5}{3}$$

Ans: They got total $\frac{5}{3}$ part of bread.

Exercise 3:

Solution: 1st fraction 13is $= \frac{5}{9}$

2nd fraction is $= (-)\frac{2}{9}$

Difference $= \frac{3}{9} = \frac{1}{3}$

Calculation, $\frac{5}{9} - \frac{2}{9} = \frac{3}{9} = \frac{1}{3}$

Short question

Solution:

1. **Ans: Fraction is a number which has a numerator and a denominator.**

$$Fraction = \frac{Numerator}{Denominator}$$

2. **Ans: A fraction in which the numerator is less than the denominator is called a proper fraction (numerator< denominator).**

3. **Ans: A fraction in which the numerator is greater than the denominator (numerator> denominator) or the numerator is equal to the denominator (numerator= denominator) is called an improper fraction.**

4. **Ans:** $\frac{6}{8}, \frac{3}{5}, \frac{12}{17}, \frac{15}{19}, \frac{24}{28}$

5. **Ans:** $\frac{5}{5}, \frac{7}{7}, \frac{7}{5}, \frac{10}{7}, \frac{23}{12}$

6. **Fill in the blanks:**

- $\frac{2}{7}$ **is a proper fraction.**
- $\frac{6}{4}$ **is an improper fraction.**
- $\frac{a}{b}$ **is where "a" is a numerator.**

- **$\frac{p}{q}$ is where "q" is a denominator.**

7. Put the symbols "<", ">" or "="

- $\frac{4}{13} < \frac{4}{7}$
- $\frac{3}{5} > \frac{3}{10}$
- $\frac{1}{2} < \frac{3}{2}$
- $\frac{5}{7} > \frac{4}{7}$
- $\frac{7}{9} < 1$
- $\frac{2}{3} = \frac{2}{3}$