30/06/2023 | CLASS - 5TH

Ex. 3.4

Q3 Aryan painted — — — — — — together?

Sol Fraction of wall painted by Aryan = $\frac{1}{5}$

Fraction of wall painted by Rayan = $\frac{2}{3}$

Fraction of wall they paint together = $\frac{1}{5} + \frac{2}{3}$

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

$$= \frac{3}{15} + \frac{10}{15} = \frac{13}{15} \text{ Ans.}$$

Q4 Prabha was given — — — — — — the basket?

Sol Fraction of apples given to Prabha = $\frac{3}{7}$ of a basket

Fraction of apples left in the basket = $\frac{1}{1} - \frac{3}{7}$

$$= \frac{1 \times 7}{1 \times 7} - \frac{3 \times 1}{7 \times 1}$$

$$= \frac{7}{7} - \frac{3}{7} = \frac{7-3}{7} = \frac{4}{7} \text{ Ans.}$$

Q5 A piece of wire — — — — — — piece?

Sol Total length of a piece of wire = $\frac{11}{9}$

Length of one piece = $\frac{1}{3}$

Length of the other piece = $\frac{11}{9} - \frac{1}{3}$

$$= \frac{11 \times 1}{9 \times 1} - \frac{1 \times 3}{3 \times 3}$$

$$= \frac{11}{9} - \frac{3}{9} = \frac{11-3}{9} = \frac{8}{9} m.$$

06 Mohan takes — — — $2\frac{1}{5}$ — — — — — much less?

Sol Time taken to run 200m by Mohan $= 2\frac{1}{5} = \frac{11}{5}$ min.

Time taken to run 200 m by Prabhmeet $= \frac{7}{10}$ min

Fraction of less time $= \frac{11}{5} - \frac{7}{10}$
taken by Prabhmeet

$$= \frac{11 \times 2}{5 \times 2} - \frac{7 \times 1}{10 \times 1}$$

$$= \frac{22}{10} - \frac{7}{10} = \frac{15}{10}^{3}_{2} = \frac{3}{2} = 1\frac{1}{2} min.$$

Hence, Prabhmeet takes less time, by $1\frac{1}{2}$ minutes

07 Shopkeeper — — — — — — — — bought?

Sol Fraction of ribbon given to Jaya $= \frac{8}{5} m$

Fraction of ribbon given to Lalita $= \frac{7}{4} m$

Total length of ribbon they bought $= \frac{8}{5} + \frac{7}{4}$

LCM of 5 and 4 is 20

$$= \frac{8 \times 4}{5 \times 4} + \frac{7 \times 5}{4 \times 5}$$

$$= \frac{32}{20} + \frac{35}{20} = \frac{67}{20} = 3\frac{7}{20} m \quad \text{Ans.}$$