

EXERCISE – 6G

Q-1. Abhijit spent $\frac{1}{3}$ of an hour painting his toy aeroplane and $\frac{1}{6}$ of an hour polishing his shoes. How much time did he spend together ?

Sol : Time spend on painting = $\frac{1}{3}$ hr

Time spend on polishing = $\frac{1}{6}$ hr

$$\begin{aligned}\text{Total time spend} &= \frac{1}{3} + \frac{1}{6} \\ &= \frac{2+1}{6} = \frac{3}{6} = \frac{1}{2} \text{ hr}\end{aligned}$$

Q-2. Rekha mixes $\frac{1}{2}$ litres of water with $\frac{1}{8}$ litres of orange squash . How much mixture does she get?

Sol : Quantity of water = $\frac{1}{2}$

Quantity of orange squash = $\frac{1}{8}$

$$\begin{aligned}\text{Total mixture} &= \frac{1}{2} + \frac{1}{8} \\ &= \frac{4+1}{8} = \frac{5}{8} \text{ litres}\end{aligned}$$

Q-3. In a vegetable garden $\frac{1}{6}$ of the area is covered with lettuce and $\frac{5}{12}$ with tomato plants . What fraction of the area is planted with these ?

Sol : Area covered with lettuce = $\frac{1}{6}$

Area covered with tomato plants = $\frac{5}{12}$

$$\begin{aligned}\text{Total area planted} &= \frac{1}{6} + \frac{5}{12} \\ &= \frac{2+5}{12} = \frac{7}{12}\end{aligned}$$

Q-4. Deepak and Amir bought a cake . Deepak ate $\frac{2}{5}$ of the cake . Amir ate $\frac{3}{10}$ of it . a. Who ate more ? b. How much more ?

Sol : (a) Deepak ate cake = $\frac{2}{5}$ part

$$\text{Amir ate cake} = \frac{3}{10} \text{ part}$$

$$= \frac{2}{5} - \frac{3}{10}$$

$$= \frac{4-3}{10} = \frac{1}{10} \Rightarrow \text{Deepak ate } \frac{1}{10} \text{ part more .}$$

Q-5. In his will, Ravi left $\frac{1}{3}$ of his wealth to his son , $\frac{5}{12}$ to his daughter and the remaining to his wife . Who received the largest share and who received the least share ?

Sol : Wife's part = $1 - \left(\frac{1}{3} + \frac{5}{12} \right)$

$$= 1 - \left(\frac{4+5}{12} \right)$$

$$= 1 - \frac{9}{12}$$

$$= \frac{12-9}{12} = \frac{3}{12}$$

$$\text{Son's part} = \frac{1 \times 4}{3 \times 4} = \frac{4}{12}$$

$$\text{Daughter's part} = \frac{5}{12}$$

So Daughter received largest share and wife received least share .