

**Text book Page # 62 : Solutions**

1.

Fraction of pie with Shuja =  $\frac{1}{4}$

Fraction of pie with Kulssom =  $\frac{1}{8}$

$$\begin{aligned} \text{(a) Fraction of pie they both have together} &= \frac{1}{4} + \frac{1}{8} \\ &= \frac{1 \times 2}{4 \times 2} + \frac{1}{8} \\ &= \frac{2}{8} + \frac{1}{8} \\ &= \frac{3}{8} \end{aligned}$$

$$\text{(b) Shuja's share of pie is bigger than Kulssom's by} = \frac{1}{4} - \frac{1}{8}$$

$$\begin{aligned} &= \frac{1 \times 2}{4 \times 2} - \frac{1}{8} \\ &= \frac{2}{8} - \frac{1}{8} \\ &= \frac{1}{8} \end{aligned}$$

2.

Fraction of cake with Saleh =  $\frac{4}{5}$

Fraction of cake he ate =  $\frac{2}{5}$

Fraction of cake his sister ate =  $\frac{1}{10}$

$$\begin{aligned} \text{(a) Fraction of cake eaten} &= \frac{2}{5} + \frac{1}{10} \\ &= \frac{2 \times 2}{5 \times 2} + \frac{1}{10} \\ &= \frac{4}{10} + \frac{1}{10} \\ &= \frac{5}{10} \end{aligned}$$

$$\begin{aligned}
 \text{(b) Fraction of cake left} &= \frac{4}{5} - \frac{5}{10} \\
 &= \frac{4 \times 2}{5 \times 2} - \frac{5}{10} \\
 &= \frac{8}{10} - \frac{5}{10} \\
 &= \frac{3}{10}
 \end{aligned}$$

3.

Fraction of stamp collection with Asia =  $\frac{5}{5} = 1$

Fraction of stamp collection given to her brother =  $\frac{1}{5}$

Fraction of stamp collection to her friend =  $\frac{1}{3}$

$$\begin{aligned}
 \text{Fraction of stamp collection given} &= \frac{1}{5} + \frac{1}{3} \\
 &= \frac{1 \times 3}{5 \times 3} + \frac{1 \times 5}{3 \times 5} = \frac{3}{15} + \frac{5}{15} \\
 &= \frac{8}{15}
 \end{aligned}$$

$$\begin{aligned}
 \text{Fraction of stamp collection left} &= 1 - \frac{8}{15} = \frac{5}{5} - \frac{8}{15} \\
 &= \frac{5 \times 3}{5 \times 3} - \frac{8}{15} \\
 &= \frac{15}{15} - \frac{8}{15} \\
 &= \frac{7}{15}
 \end{aligned}$$