Rahul and Ravi   2:3

Total slices = 10

$$2+3$$

$$T = 5$$

Value of 1 part = $\dfrac{10}{5}$ = 2 slices

Rahul = $2 \times 2 = 4$

Ravi = $3 \times 2 = 6$

Total = 100

Ratio 1:4   20 : 80

$$
\begin{array}{cc}
100 & 5 \\
x & 1 \\
100 &= 5x \\
x &= \dfrac{100}{5} \\
x &= 20
\end{array}
$$

M = 3000   1:2

S = 6000

2:3

3:2   Elder is 15 y

$$3 \rightarrow 15 \qquad 3x = 30$$

$$2 \rightarrow x \qquad \boxed{x = 10}$$

7.

$5 - 50$

$8 \to x$

$5x = 400$

$x = \dfrac{400}{5} \quad 80$

8.

$120 \, km \to 2 \, hr$

$x \qquad \to 5 \, hr$

$2x = 600$

$x = \dfrac{600}{2} =$

$120 \, km \, in \, 2 = \dfrac{120}{2} = 60$

$60 \times 5 = 300 \, km$

9.

$S:F = 1:4$

$4 \to 1 \, kg$

$250g$

10.

$12 \to 60$

$x \to 180$

$60x = 180 \emptyset$

$x = \dfrac{180}{6}^{3}$

$x = 30$

$\dfrac{12 \times 15}{60}$

$\dfrac{12 \times}{180}$

11.

$15 + 12 = 27 \to 6000$

$\dfrac{6000}{27} = 222.2$

$15 = 222.2 \times 15 = 3333.33$

$12 = 222.2 \times 12 = 2666.67$

U. A + B + C = 12,000

$\quad$ 3 : 2 : 1

$\qquad \dfrac{12000}{6} = 2000$

A = 3 × 2000 = 6000

B = 2 × 2000 = 4000

C = 1 × 2000 = 2000

13. $\quad$ 7 : 3

$\qquad$ 7 l

14. $\quad$ x : y : z $\quad$ = 5 : 6 : 7

$\quad$ 5 + 6 + 7

$\quad$ 18 = 60,000

$\qquad$ 1 = $\dfrac{60,000}{18}$ = 3,333 · 3

$\quad$ x = 5 × 3,333·3 $\qquad$ = 16,667

$\quad$ y = 6 × 3,333·3 $\qquad$ = 20,000

$\quad$ z = 7 × 3,333·3 $\qquad$ = 23,333

15. $\quad$ 3 : 4

$\qquad$ 3 → 18 km $\qquad \dfrac{18}{3} = 6$

$\qquad$ 6 × 4 = 24

16.
$$40:60 \rightarrow 5 l$$
$$4:6 \rightarrow 5 l$$
$$40 \% \; 5 = 2$$

17.
$$A \rightarrow 5000$$
$$B \rightarrow 3000$$
$$5:3$$
$$\frac{2400}{8} = 300$$

$$5 \times 300 = 1500$$
$$3 \times 300 = 900$$

18.
$$A \rightarrow 6000 \qquad \times 12 \qquad 72 \qquad 18 = 6 : 2$$
$$B \rightarrow 9000 \qquad \times 12 \qquad 108 = 27 = 9 : 3$$
$$C \rightarrow 3000 \;(4) \times 8 \qquad 24 = 6 = 2 : 1$$

$$2:3:1 \qquad \frac{18000}{17} = 1,058.9 \approx 1059$$

$$A \rightarrow 6,352$$
$$B \rightarrow 9,529$$
$$C \rightarrow 2,117$$

19
$$A \rightarrow 2000 \times 12 = 24000 \qquad 8:9$$
$$B \rightarrow 3000 \times 9 = 27000$$

20. A : B : C
    2 : 3 : 5

    $\dfrac{10,000}{10}$ = 1000

    A = 2 × 1000
    B = 3 × 1000 = 3000

21. A : B : C
    4 : 5 : 6

    A = 4000 × 4
    B = 5000 × 6
    C = 6000 × 12

    16000 : 30,000 : 72 000
        16 : 30 : 72
         8 : 15 : 36

22. A = 10,000 × 12
    B = 5000 × 8
    C = 10,000 × 4

    120 : 40 : 40
     12 : 4 : 4
      6 : 2 : 2
      3 : 1 : 1

23   A → 5000 × 6   = 30,000
      B = 7000   × 6   = 48,000
         T = 48,000

      A → 3000 × 6 = 18,000
      B → 10,000 × 6 = 60,000

         A → 48,000   48 : 102
         B → 1,02,000   8 : 17

24   A → 5000 × 12 = 60,000
      B → 7000 × 8 = 56,000
      C → 9000 × 4 = 36,000

      TP = 6600   A = 30 × 86.84 = 2605
      R → 60 : 56 : 36   B = 28 × 86.84 = 2431
         30 : 28 : 18 = 76   C = 18 × 86.84 = 1564

      1 part = $\frac{6600}{76}$ = 86.84

25   A : B : C   Ratio = 36000 : 32000 : 48000
      A × 6 =   36,000   36 : 32 : 48
      B = 8000 × 4 = 32,000   9 : 8 : 12 = 29
      C = 4000 × 12 = 48,000

                                     A → 9 × 344.8 = 3103
                                     B → 8 × 344.8 = 2759
      1 part = $\frac{10,000}{29}$ = 344.8   C → 12 × 344.8 = 4138