

$$(1) \quad \frac{2}{5} \times 10 = 4, \text{ Rahul}$$

$$\text{Ravi} = \frac{3}{5} \times 10 = 6$$

$$\underline{\text{Ans} = 6}$$

$$(2) \quad 1:4 = 5$$

$$\text{Amu} = \frac{1}{4} \times 100 = 25$$

$$\text{Tina} = \frac{4}{5} \times 100 = 80$$

$$\underline{\text{Ans} = 80}$$

$$(3) \quad 3000 : 6000$$

$$\frac{3000}{1000} : \frac{6000}{1000}$$

$$\underline{\text{Ans} = 3:6}$$

$$(4) \quad m:w = 2:3 = 5$$

$$\underline{\text{Ans} = \frac{2}{5}}$$

$$(5) \quad 3:2$$

$$x = 15 = \frac{15}{3} = 5, \therefore 2 \times 5 = 10$$

$$\underline{\underline{y = 10}}$$

$$(7) \quad SP = 50$$

$$1P = 10$$

$$8P = 80$$

$$\underline{Ans = 80}$$

$$(8) \quad 120 \text{ km in } 2 \text{ h}$$

$$\frac{120}{2} = 60 \text{ km/h}$$

$$\text{in } 5 \text{ hrs} = 5 \times 60 = 300 \text{ km}$$

$$\underline{Ans = 300 \text{ km}}$$

$$(9) \quad S : F = 1 : 4$$

$$= 5 \text{ parts}$$

$$\text{Sugar} = \frac{1}{4} \text{ kg of } 1 \text{ kg}$$

$$(10) \quad 12 \text{ or} = 60$$

$$\frac{60}{12} = 5 \text{ Rs}$$

$$\therefore 150 \text{ Rs} \Rightarrow \frac{150}{5} = \underline{30 \text{ oranges}}$$

$$(11) \quad \text{age} = 12 : 15$$

$$\frac{12}{3} : \frac{15}{3} = 4 : 5 = 9$$

$$1 \rightarrow \frac{4}{9} \times 6000 = 2666.6$$

$$2 \rightarrow \frac{5}{9} \times 6000 = 3333.3$$

$$12] \quad 3:2:1 = 6 \text{ part}$$

$$A = \frac{3}{6} \times 12000 = 6000$$

$$B = 4000, C = \underline{2000}$$

$$13] \quad m:w = 7:3$$

$$= 10$$

$$m = \frac{7}{10} \times 10 = 7 \text{ lit}$$

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

$$y = 60,000$$

$$\frac{60000}{6} = 10,000$$

$$\therefore z = 7 \times 10,000$$

$$z = 70,000 \text{ L}$$

$$15] \quad 3:4$$

$$18 \text{ km} \rightarrow 1^{\text{st}}$$

$$\frac{18}{3} : \frac{2}{4} \Rightarrow \frac{4}{3} \times 18 = 24 \text{ km}$$

$$16]$$

$$\frac{2+x}{5+x} = 0.5$$

$$= 2+x = 2.5 + 0.5x$$

$$0.5x \Rightarrow 0.5x \Rightarrow x = 1 \text{ lit}$$

$$(17) \quad A:B = 5:3$$

$$= 8$$

$$A = \frac{5}{8} \times 2400 = 1500$$

$$B = 2400 - 1500$$

$$B = \underline{900}$$

(18)

$$A = 6000 \times 12 = 72000$$

$$B = 9000 \times 12 = 108000$$

$$C = 3000 \times 8 = 24000$$

$$\text{Total} = 72000 + 108000 + 24000 = 204000$$

$$\therefore C = \frac{24000}{204000} \times 1800 = 211.7$$

(19)

$$A = 2000 \times 12 = 24000$$

$$B = 3000 \times 9 = 27000$$

$$\text{Ratio} = 24000 : 27000$$

$$= 8:9$$

(20)

$$A:B:C = 2:3:5 =$$

$$= 10$$

$$B = \frac{3}{10} \times 10000 = 3000$$

(21)

$$A = 4000 \times 4 = 16000$$

$$B = 5000 \times 6 = 30000$$

$$C = 6000 \times 12 = 72000$$

$$\text{Ratio} = 16000 : 30000 : 72000$$

$$\therefore 8 : 15 : 36$$

(22)

$$A = 120000$$

$$B = 40000$$

$$C = 40000$$

$$\begin{aligned} \text{Ratio} &= \frac{120000}{40000} : \frac{40000}{40000} : \frac{40000}{40000} \\ &= 3 : 1 : 1 \end{aligned}$$

(23)

$$A = 5000 \times 6 + 3000 \times 6 = 48000$$

$$B = 7000 \times 12 = 84000$$

$$\text{Ratio} = \frac{48000}{12000} : \frac{84000}{12000} =$$

$$= 4 : 7$$

$$\frac{12 \times 4}{8}$$

(24)

$$A = 5000 \times 12 = 60000$$

$$B = 7000 \times 8 = 56000$$

$$C = 9000 \times 4 = 36000$$

$$\therefore T = A + B + C = 152000$$

$$\therefore A = \frac{60000}{152000} \times 6600 = 2605.26$$

$$B = \frac{56000}{152000} \times 6600 = 2430.26$$

$$C = \frac{36000}{152000} \times 6600 = 1564.47$$

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$$A = 6000 \times 6 = 36000$$

$$B = 8000 \times 4 = 32000$$

$$C = 4000 \times 12 = 48000$$

$$\therefore T = 116000$$

$$\therefore A = \frac{36000}{116000} \times 10000 = 3103.45$$

$$B = \frac{32000}{116000} \times 10000 = 2758.3$$

$$C = \frac{48000}{116000} \times 10000 = 4137.9$$