

## Co-Principle

Ravi & Rahul  
3:2

$$\text{Total} = 3+2 = 5$$

$$8 \text{ slices} = \frac{8}{5} = 2$$

$$\text{Rahul} = 2 \times 2 = 4$$

$$\text{Ravi} = 3 \times 2 = 6$$

$$\boxed{\text{Rahul} \Rightarrow 4, \text{Ravi} \Rightarrow 6}$$

2 ratio  $\Rightarrow 1:4$

$$\text{Total } 1+4 = 5$$

$$\text{Amount [part} = \frac{20}{5} \text{]} / \$1 = 20$$

$$\text{Anu} \Rightarrow 1 \times 20 = 20$$

$$\text{Tina} \Rightarrow 4 \times 20 = 80$$

$$\boxed{\text{Anu} \Rightarrow 20, \text{Tina} \Rightarrow 80}$$

3

Meena  $\Rightarrow 3000$ , Sarita  $\Rightarrow 6000$

$$\text{Ratio} = 3000:6000$$

$$3:6$$

$$1:2$$

$$\boxed{\text{Ratio} = 1:2}$$

④ Rihu = 2 cups of milk  
3 cups of water  
ratio = ?

$$\text{Total Sol} = 2+3=5$$

(milk : total) 2:5

$$\boxed{\text{Ratio} = 2:5}$$

⑤ Ages of 2 brother's  $\Rightarrow$  3:2  
elder  $\Rightarrow$  15y  
younger  $\Rightarrow$  ?

Elder's part  $\Rightarrow$  3

years per part  $\rightarrow \frac{15}{3} = 5$

Younger  $\Rightarrow \frac{2}{3} \times 5 = \underline{\underline{10}}$

Younger = 10y

⑥ 60 chocolate b/w Amit. Raj  
Ratio: 2:1

$$\text{Total} = 2+1=3$$

$$\text{chocolate} = \frac{60}{3}=20$$

$$2 \times 20 \text{ for one} = 40$$

Other will get  $\Rightarrow 1 \times 20 = 20$  chocolate

Amit  $\Rightarrow 40$

Raj  $\Rightarrow 40$

Raj  $\Rightarrow 20$

or Amit  $\Rightarrow 20$

7. 5 pens  $\rightarrow$  50  
 8 pen  $\cancel{\rightarrow}$  ?  
 $8x = 50 \times 8$

$x = 80$

8. Car  $\rightarrow$  180 km / 2 hrs  
 5 hours  $\rightarrow$  ?

$s = d/t$

$s = 150^{60}/2 = 60 \text{ km/hr}$

$d = 60 \times 5 = 300 \text{ km}$

Difference = 300 km

9. Sugar to flour is 1:4  $\Rightarrow$   
 $g \Rightarrow 1000 \text{ g}/4 = 250 \text{ g}$   
 Sugar used  $\Rightarrow 1 \times 250$   
 $= 250 \text{ g}$   
Sugar  $\Rightarrow 250 \text{ g} @ 0.25 \text{ kg}$

10. 12 oranges  $\rightarrow$  ₹ 60

150  $\Rightarrow$

Cost/orange = ₹ 60/12

₹ 150 for 5

$150/5 = 30$

Orange = 30

11.  $6000 \rightarrow 2$  Sen

12  $\Sigma 15$

Share of each

age  $\rightarrow 10:15$

ratio  $\rightarrow 4:5$

Total  $= 4+5 = 9$

$$6000/9 = 666.67$$

$$\text{Sen 1} \Rightarrow 4 \times 666.67 = 2666.68$$

$$\text{Sen 2} \Rightarrow 5 \times 666.67 = 3333.35$$

$$\boxed{\text{Sen 1} = 2666.68}$$

$$\boxed{\text{Sen 2} = 3333.35}$$

(12) Total  $\Rightarrow 3+2+1 = 6$

amount/part  $\Rightarrow 12000^{\frac{3}{6}} / 6 = 2000$

$$\text{A} = 3 \times 2000 = 6000$$

$$\text{B} = 2 \times 2000 = 4000$$

$$\text{C} = 1 \times 2000 = 2000$$

(13) Ratio  $= 7:3$ ,

Total = 10

$$\text{Milk} = \frac{7}{10} \times 10 = 7$$

(14) Ratio  $x:1:y:z$   
 $5:6:7$

where

$$y = 260000$$

$$2 = 7/6 \times 60000$$

$$= 70000$$

(15) Speed ratio = 5:4

1st person distance = 18 km

2nd person distance

$$= (4/3) \times 18$$

$$= 24 \text{ km}$$

⑩ 60% alcohol  $\rightarrow$  40% water is 52  
 $\Rightarrow$  9 L water

$$\text{Want } 50\% \text{ water} \rightarrow \text{Add 1 water}$$

$$\rightarrow (2+x)/8(x) = 0.5$$

$x = 1.2$

$$\textcircled{17} \quad \text{Ratio} = 5000 \times 6 : 3000 \times 6 \\ = 30000 : 18000 = 8 : 5$$

$$= 2400 \times (8/8) = \text{£1800} \notin 2400 \text{ £}(7/1)$$

$\therefore \text{£900}$

$$A = 1800 \quad B = \underline{\underline{4900}}$$

⑯ A:  $\mathbb{E}_{6000} \times 12$  B:  $\mathbb{E}_{9000} \times 12$

$$C: \not\in 3000 \times 8 = 79000$$

$$108000 : 94000 = 6 : 9 : 2$$

Total = 17 parts  $\rightarrow$  C's share =  $(3/17)$

$$= \text{£} \underline{\underline{211.76}}$$

$$19. A = \text{£} 8000 \times 12 = \text{£} 96000$$

$$B = \text{£} 3000 \times 9 = \text{£} 27000$$

$$\text{Ratio} = 8 : 9$$

20. Ratio = 2 : 3 : 5  $\rightarrow$  Total = 10 parts

$$\text{B's share} = (3/10) \times 100000$$
$$= \text{£} 30000$$

$$21. A = \text{£} 4000 \times 4 = \text{£} 16000$$

$$B = \text{£} 5000 \times 6 = \text{£} 30000$$

$$C = \text{£} 6000 \times 12 = \text{£} 72000$$

$$\text{Ratio} = 16 : 30 : 72 = 4 : 7.5 : 18$$

$$\times \text{ by } 2$$
$$= 8 : 15 : 36$$

$$22. A = \text{£} 5000 \times 12 = \text{£} 60000$$

$$B : \text{£} 5000 \times 12 = \text{£} 60000$$

$$B : \text{£} 7000 \times 8 = \text{£} 56000$$

$$C : \text{£} 9000 \times 4 = \text{£} 36000$$

$$\text{Total} = \text{£} 60000 + \text{£} 56000 + \text{£} 36000 = \text{£} 152000$$

$$A = (\text{£} 60000 / \text{£} 152000) \times 6600 = \text{£} 96.06.26$$

$$B = (\text{£} 56000 / \text{£} 152000) \times 6600 = \text{£} 2430.26$$

$$C = \text{£} 156.47$$

$$A = \text{£} 9605.26$$

$$B = \text{£} 2430.26$$

$$C = \text{£} 156.47$$

$$25. A : \text{£} 6000 \times 6 = \text{£} 36000$$

$$B : \text{£} 8000 \times 4 = \text{£} 32000$$

$$C : \text{£} 4000 \times 12 = \text{£} 48000$$

$$\text{Total} = \text{£} 116000$$

$$A = (\text{£} 36000 / \text{£} 116000) \times 10000$$

$$\text{£} 3183.45$$

$$B = \text{£} 8758.62$$

$$C = \text{£} 4137.93$$