

Aptitude

① Ravi & Rahul

3:2

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

$$1 \text{ slice} = 100/5 = 2.$$

$$\text{Rahul} = 2 * 2 = ④$$

$$\text{Ravi} = 3 * 2 = ⑥$$

$$\boxed{\text{Rahul} = 8A, \text{Ravi} = 12A}$$

② ratio = 1:4

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

$$\text{Amount / part} = 100/5 = 20$$

$$\text{Ame} = 1 * 20 = 20$$

$$\text{Tina} = 4 * 20 = 80$$

$$\boxed{\text{Ame} = 20 \quad \text{Tina} = 80}$$

$$Tina = 8 \text{ hours} \times 20 = 80$$

$$\boxed{Arun = 20 \quad Tina = 80}$$

③ Meena = 3000, Latha = 6000

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

$$= 3 : 6$$

$$= 1 : 2$$

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

④ Riku → 2 cups of milk

3 cups of water

$$\text{ratio} = ?$$

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

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

milk & total.

⑤ Ages of 2 brothers = 3: 2
elder brother 15 years

$$\text{Elder part} = 3$$

$$\text{year per part} = 15 / 3 = 5.$$

$$\text{Younger} = 2 \times 5 = 10$$

$$\boxed{\text{youngest}}$$

⑥ 60 chocolate b/w Amit Raj

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

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

$$\text{choco (part} = 60/3 = 20$$

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

$$\text{other} = 1 \times 20 = \underline{\underline{20}}$$

$$\text{Amit} = 4 \text{ AD}$$

$$\text{Raj} = 20$$

OR

$$\text{Raj} = 4 \text{ AD}$$

$$\text{Amit} = 20$$

⑦ 5 pens \rightarrow 50

8 pens $\cancel{\rightarrow} 8?$

$$5x = 50 \times 8$$

$$x = 80$$

⑧ Car \rightarrow 120 km / hrs

5 hours \rightarrow ?

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

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

⑨ Sugar of flour is 1 : 4

$$\begin{aligned} g &= 100 \text{ g } \cancel{1} = 250 \text{ g} \\ \text{sugar} &= 1 + 2 \cancel{5} 0 \\ &\underline{\underline{250 \text{ g}}} \end{aligned}$$

⑩ 12 oranges \rightarrow ₹ 60
150 \rightarrow ?

$$\text{Cost 1 orange} = 60/12 = 5$$

$\cancel{2} 150 \text{ for } 5$

$$\underline{\underline{150/5 = 30}}$$

⑩ $6000 \rightarrow$ 2 rows
12 & 15
share of each?

$$\text{ages} = 12 : 15 \quad \text{Total } A + S = 9$$
$$\text{ratio} = 4 : 5 \quad 6000/9 = 666.67.$$

$$\text{son 1} = 4 * 666.67 = \underline{\underline{2666.68 \text{ rupees}}}$$
$$\text{son 2} = 5 * 666.67 = \underline{\underline{3333.35 \text{ rupees}}}$$

⑪ Total $\Rightarrow 3+2+1 = 6$
Amount 1 part $= 12000/6 = 2000$

$$A's = 3 * 2000 = 6000$$

$$B's = 2 * 2000 = 4000$$

$$C's = 1 * 2000 = 2000$$

(13) Ratio = 7:3, ~~Milk~~
 Total = 10L

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

(14) Ratio x:y:z

$$5:6:7$$

Where

$$y = \text{₹}60,000$$

$$z = \frac{7}{6} \times 60000$$

$$= \underline{\underline{70,000}}$$

(15) Speed ratio = 3:4

$$1^{\text{st}} \text{ person distance} = 18 \text{ km}$$

$$2^{\text{nd}} \text{ person distance} =$$

$$= \left(\frac{4}{3}\right) \times 18$$

$$= 24 \text{ km}$$

(16) 60% alcohol + 40% water in 5L
→ 2L water

Want 50% water → Add x L water

$$-\frac{4(2+x)}{5+x} = 0.5$$
$$x = 1. \text{ l}$$

~~0.5~~

(17) Ratio = $5000 \times 6 : 3000 \times 6$
 $= 30000 : 18000 = 5 : 3$

$$\text{₹}2400 \times (5/8) = \text{₹}1500, \text{₹}2400 \times (3/8)$$
$$= \text{₹}900$$

A = ₹1500 B = ₹900

$$A : \text{₹}6000 \times 12, B : \text{₹}9000 \times 12$$

$$C : \text{₹}3000 \times 8 = 72000$$

$$108000 : 24000 = 6 : 9 : 2$$

Total = 17 parts \rightarrow C's share = $(2/17) \times 18000$

$$= \underline{\underline{\mathcal{R} 21176}}$$

⑯ $A = \mathcal{R} 2000 \times 12 = 24000$

$$B = \mathcal{R} 3000 \times 9 = 27000$$

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

⑰ Ratio = 2 : 3 : 5 \rightarrow Total = 10 parts

$$B's \text{ share} = (3/10) \times 10000$$

$$= \mathcal{R} 3000$$

⑱ $A = \mathcal{R} 4000 \times 4 = 16000$

$$B = \mathcal{R} 5000 \times 6 = 30000$$

$$C = \mathcal{R} 6000 \times 12 = 72000$$

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

⑲ $\&$ by 9

$$= \underline{\underline{8 : 15 : 13}}$$

$$\textcircled{22} \quad A = ₹10000 \times 12 = 120000$$

$$B = ₹5000 \times 8 = 40000$$

$$C = ₹10000 \times 4 = 40000$$

$$\text{Ratio} = 12 : 4 : 4 = 3 : 1 : 1$$

$$\textcircled{23} \quad A : (5000 \times 6) + (3500 \times 6) = 48000$$

$$B : (7000 \times 6) + (10000 \times 6) = 102000$$

$$\text{Ratio} = 48 : 102 = 8 : 17$$

$$\text{Ratio} = \underline{\underline{8 : 17}}$$

(24)

$$A: \text{£}5000 \times 12 = 60000$$

$$B1: \text{£}5000 \times 12 = 60000$$

$$B2: \text{£}7000 \times 8 = 56000$$

$$C: \text{£}9000 \times 4 = 36000$$

$$T = 60000 + 56000 + 36000 = 152000$$

$$A = (60000 / 152000) \times 6600 = \text{£}2605.26$$

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

$$C = \text{£}1564.47$$

$$A = \text{£}2605.26$$

$$B = \text{£}2430.26$$

$$C = \text{£}1564.47$$

(25)

$$A: \text{£}6000 \times 6 = 36000$$

$$B: \text{£}8000 \times 4 = 32000$$

$$C: \text{£}4000 \times 12 = 48000$$

$$T = 116000$$

$$A = (36000 / 116000) \times 10000$$

$$\text{£}3133.45$$

$$B = \underline{\text{£}2758.62}$$

$$C = \underline{\text{£}4137.93}$$