

Day 3

Aptitude

1. 2:3

$$\frac{2}{5} \times 20 = 8$$

$$\frac{3}{5} \times 20 = 12$$

So, ~~Ravi~~ Rahul will have 8 slices, and Ravi will have 12 slices.

2. 1:4

$$\frac{1}{5} \times 100 = 20$$

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

20 for Anu and 80 for Tina

3. 1:2

4. ~~2~~ milk : water
2:3

Total solution is 5 parts

so milk : total
2:5

5. 3:2

~~3:2~~ ~~not correct~~

$$\frac{3}{2} \neq \frac{15}{?}$$

$$3 \cdot x = 2 \cdot 15$$

$$x = \frac{2 \cdot 15}{3} = 10$$

10 years old.

6. It is not possible, only one can get twice as other if we divide like, 10 and 20.

7. $\frac{5}{8} \neq \frac{50}{?}$

$$? = \frac{50 \cdot 8}{5} = 80$$

10 for 8 pens.

8. 120km in 2 hours
10, 60 kmph.

In 5 hours, $60 \cdot 5 = 300 \text{ km}$.

9. Sugar : flour
1 : 4
? : 1 kg.

$\frac{1}{4}$ for 1 part is 1 kg
so 1 part is $\frac{1}{4} \cdot 1 = 0.25$
 $= 250 \text{ grams}$

10.

$$12 \rightarrow 60$$

$$! \rightarrow 150$$

$$? = \frac{150 \times \frac{1}{2}}{60}$$

30 oranges for 150

11.

$$12 : 15$$

$$\frac{12}{27} \times 6000 = \frac{24000}{3} = 8000$$

$$= \frac{2666.66}{3} = 2666.66$$

$$\frac{15}{27} \times 6000 = 3333.33$$

$$- 2666.66$$

$$= 3333.33$$

The 12 years one will get 2666.66
and 15 years will get 3333.33

12.

$$3 : 2 : 1 = 1200$$

$$\frac{3}{6} \times 1200 = 600$$

$$\frac{2}{6} \times 1200 = 400$$

$$\frac{1}{6} \times 1200 = 200$$

A's share is 600

B's share is 400

C's share is 200

13. milk : water :: 7:3

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

14. 5:6:7

$$\frac{5}{18} \times 10000 = 16,666.67$$

$$\frac{6}{18} \times 10000 = 20000$$

$$\frac{7}{18} \times 10000 = 23,333.33$$

15. 3:4

$$\frac{3}{4} = \frac{18}{?}$$

$$12 \times \frac{18 \times 4}{3} = 24 \text{ km}$$

16. 4:6

$$\frac{4}{10} \times 5 = 2 \text{ ltr.}$$

1 more ltr of water should be added.

17. 5:3

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

$$A's \text{ share} = 1500$$

$$\frac{3}{8} \times 2400 = 900$$

$$B's \text{ share} = 900$$

18. $A : B : C$
 $2000 : 3000 : 1000$
 $1/2 : 1/3 : 1/5$

~~6x4~~ $2 \times 4 : 3 \times 4 : 1 \times 3$
 $8 : 12 : 3$

$\frac{3}{23} \times 1800 = 234.78$

19. $2000 : 3000$
 $1/2 : 1/3$

$2 \times 4 : 3 \times 3$
 $8 : 9$

$8 : 9$ is the ratio A and B

20. $2 : 3 : 5$

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

B's share is 3000.

21. $4000 : 5000 : 6000$
 $2/5 : 1/2 : 1/3$

$2 \times 4 : 5 \times 3 : 6 \times 6$
 $8 : 15 : 36$

$8 : 15 : 36$ is their profit ratio.

22. $\frac{10000}{512} : \frac{5000}{82} : \frac{10000}{A_1}$

$5 \times 2 : 2 : 2$
 $6 : 2 : 2$

$6 : 2 : 2$ is the profit ratio.

23. $\frac{5000}{6} : \frac{7000}{6}$
 $\frac{73000}{6} : \frac{10000}{6}$

$72 : 15 : 10$
 $38 : 14$

$3 : 14$ is profit ratio.

24. $\frac{5000}{312} : \frac{7000}{82} : \frac{9000}{A_1}$

$5 \times 3 : 7 \times 2 : 9 : 1$
 $15 : 14 : 9$

$\sqrt[2]{38}$
19

$\frac{15}{38} \times 6600 = 2605.26$

$\frac{14}{38} \times 6600 = 2431.57$

$\frac{9}{38} \times 6600 = 1563.15$

25. $36000 : 48000 : 24000$
 $B_3 : K_2 : 121$

$3 \times 3 : 4 \times 2 : 2 \times 6$
 $9 : 8 : 12$

$\frac{9}{29} \times 10000 = 3103.44$

$\frac{8}{29} \times 10000 = 2758.62$

$\frac{12}{29} \times 10000 = 4137.93$