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## Partnership

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1. A, B and C started a business by investing rs 28000, rs 35000 and 14000 respectively. At the end of a year they got a total profit of RS 5225. Find A's share?  
(a) 1740                      b) 1850                      c) 1900                      d) 1650
2. A, B and C started a business by investing rs 45000, 55000 and 60000 respectively. At the end of a year they got a total profit of RS 11200. Find how much B gets more than A in profit?  
a) 700                      b) 750                      c) 710                      d) 780
3. A and B started a business by investing 42000 and 63000 respectively. After 4 month B withdraws from the business. At the end of the year they got a profit of 9600 RS. Find the share of B.  
a) 5600                      b) 2800                      c) 3200                      d) 6400
4. Ajay and Avay started a business with a investment of 13000 ND 39000 RS respectively. After 5 months Arun joins with the capital of 52000 RS. At the end of the year they got a profit of 14250 RS. Find the share of Arun.  
a) 3650                      b) 5250                      c) 6750                      d) 2250
5. A and B entered into a partnership with a investment of 15000 RS and 40000 RS respectively. After 3 months A lefts from the business, at the same time C joins with 30000 RS. At the end of 9 months they got RS 7800 as profit. Find the share of B.  
a) 4800                      b) 600                      c) 2400                      d) 1200
6. A started a business with 18000 RS. After 4 months B joins with 24000 RS. After 3 more months C joins with RS 30000. At the end of 10 months C received 1850 RS as his share. Find the total profit.  
a) 7955                      b) 7030                      c) 8510                      d) 6845
7. 3 partners started a business with RS 80000. At the end of the year they receive RS 1800, RS 3000 and RS 4800 as profit. Find the investment of the 2<sup>nd</sup> person.  
a) 25000                      b) 40000                      c) 15000                      d) 32000
8. A and B started a business with investment of 11000 RS and 12000 RS respectively. After 6 months A invests RS 2000 more and after 8 months B withdraws RS 3000, then C joins with 15000. Find the profit of A in total profit of RS 25200 at the end of the year.  
a) 9900                      b) 10800                      c) 4500                      d) 7000
9. Radhika and Renuka enter into a partnership with the investment of RS 50000 and 70000 respectively. Renuka get 10% of the total profit for maintaining the business and the remain profit is distributed between them in the ratio of their investments. If the total profit at the end of the year is RS 30000 then find the total share of Renuka.  
a) 16575                      b) 21500                      c) 18750                      d) 11250
10. A, B and C hire a car for 2 days and agrees to pay RS 6/hr. The used it together for 6 hrs. Then C leaves. After another 12 hr B also leaves. Find the rent paid by A.  
a) 1920                      b) 460                      c) 240                      d) 720
11. A, B and C started a business. A's investment is 2 times of B's investment and B's investment is 5 times of C's investment. Find the profit of B in the total profit of 25600.  
a)12000                      b) 16000                      c) 8000                      d) 4000

12. A and B entered into a partnership with capital in ration 2:3. At the end of 9 months A withdraws from the business. If their profits are in the ratio 1:2, how long did B invests in the capital.
- a) 12 months                      b) 8 months                      c) 10 months                      d) 11 months
13. A, B and C started a business with a total investment of RS 72000. A invests RS 6000 more than B and B invests RS 3000 less than C. If the total profit at the end of the year is RS 8640, Find A's share.
- a) 3240                      b) 2520                      c) 2880                      d) 3360
14. A and B enter into a partnership. A invests RS 32000 and also add RS 11000 after 4 months. B withdraws RS 2000 at the end of 8 months. At the end of the year both received equal profit. Find the initial investment of B.
- a) 39000                      b) 42000                      c) 36000                      d) 40000
15. A, B and C rented a meadow. A grezed 8 cows for 6 months, B 12 cows of 8 months and C 10 cows for 9 months. If A paid RS 560 as rent. Find the rent paid by C.
- a) 1365                      b)1050                      c) 1120                      d) 1560
16. A, B and C started a business. A invests  $\frac{1}{2}$  capital for  $\frac{1}{4}$  times. B invests  $\frac{1}{8}$  of capital for  $\frac{1}{2}$  times and C invests the remaining capital for whole time. Find the share of B in total profit of RS 9900.
- a) 2200                      b) 1100                      c) 6600                      d) 4400
17. A and B invests in a business in a ratio 2:3. If 10% of the total profit goes for donation and if A's share is RS 1080 then Find the total profit.
- a) 3000                      b) 2400                      c) 2800                      d) 3200
18. 4 transport companies A, B, C and D rented a parking place. A kept 12 cars for 5 months. B kept 20 cars for 6 months, C kept 15 cars for 5 months and D kept 30 cars for 6 months in the parking place. If A's share of rent is RS 2400 then the total rent of the parking place is
- a)17400                      b) 18600                      c) 16500                      d) 19200
19. A, B and C started a business with investment of 90000, 60000 and 45000 RS respectively. If A and B left the business after a few months at the same time. At the end of the year, they share the profit in the ratio of 6:4:9. After how many months did A and B leave the business?
- a) 6 months                      b) 2 months                      c) 3 months                      d) 4 months
20. A and B started a business with investment of 75000 and 90000 respectively. At the end of 6 months A increases its capital by  $\frac{1}{5}$ <sup>th</sup> and b withdraws RS 15000 of its capital. What is the ratio of their profit at the end of the year?
- a) 1:6                      b) 1:1                      c) 1:2                      d) 1:5

## Answers with Solutions

1. (c)

$$\begin{aligned} \text{Ratio of shares of } A, B \text{ and } C &= \text{ratio of their investments} = 28000:35000:14000 \\ &= 4:5:2 \end{aligned}$$

$$\therefore A's \text{ share} = \left(\frac{4}{11} \times 5225\right) = 1900$$

2. (a)

$$\begin{aligned} \text{Ratio of shares of } A, B \text{ and } C &= \text{ratio of their investment} = 45000:55000:60000 \\ &= 9:11:12 \end{aligned}$$

$$\therefore B's \text{ share} = \left(\frac{11}{32} \times 11200\right) = 3850$$

$$\therefore B's \text{ share more than } A = (3850 - 3150) = 700$$

3. (c)

$$\text{Ratio of capitals of } A \text{ and } B = (42000 \times 12):(63000 \times 4) = 2:1$$

$$B's \text{ share} = \frac{1}{3} \times 9600 = 3200$$

4. (b)

Ratio of capitals of Ajay, Abhay and Arun,

$$(13000 \times 12):(39000 \times 12):(52000 \times 7) = 3:9:7$$

$$Arun's \text{ share} = \frac{7}{9} \times 14250 = 5250$$

5. (a)

Ratio of capitals of A, B and C

$$(15000 \times 3):(40000 \times 9):(30000 \times 6) = 1:8:4$$

$$B's \text{ share} = \frac{8}{13} \times 7800 = 4800$$

6. (d)

Ratio of capitals of A, B and C

$$(18000 \times 10):(24000 \times 6):(30000 \times 4) = 15:12:10$$

Let, the total profit be  $x$

$$C's \text{ share} = \frac{10x}{37} \rightarrow \text{Now, } \frac{10x}{37} = 1850 \rightarrow x = \frac{1850 \times 37}{10} = 6845$$

7. (a)

$$\text{The ratio of profit of the three person} = 1800:3000:4800 = 3:5:8$$

$$\text{Investment of the 2nd person} = \left(\frac{5}{16} \times 80000\right) = 25000$$

8. (b)

$$\begin{aligned} & \text{Ratio of capitals of A, B and C} \\ & [(11000 \times 6) + (13000 \times 6)] : [(12000 \times 8) + (9000 \times 4)] : [(15000 \times 4)] \\ & (66000 \times 78000) : (96000 \times 36000) : 60000 \\ & 144000 : 132000 : 60000 = 12 : 11 : 5 \\ & A's \text{ share} = \frac{12}{28} \times 25200 = 10800 \end{aligned}$$

9. (c)

$$\begin{aligned} & \text{Ratio of capitals of Radhika and Renuka} \rightarrow 50000 : 70000 = 5 : 7 \\ & \text{Share of Renuka for maintaining the business} = \frac{10}{100} \times 30000 = 3000 \end{aligned}$$

10. (d)

$$\begin{aligned} & A \text{ uses the car for } 48h, B \text{ for } 18h \text{ and } C \text{ for } 6hr \\ & \text{Ratio of time for which the car is used by A, B and C} = 48 : 18 : 6 = 8 : 3 : 1 \\ & \text{Total rent to be paid} = 60 \times 48 = 2880 \\ & \text{Rent paid by B} = \frac{3}{12} \times 2880 = 720 \end{aligned}$$

11. (c)

$$\begin{aligned} & A = 2B \text{ and } B = 5C \\ & \rightarrow A : B = 2 : 1 \text{ and } B : C = 5 : 1 \\ & \rightarrow A : B : C = 10 : 5 : 1 \\ & B's \text{ share} = \frac{5}{16} \times 25600 = 8000 \end{aligned}$$

12. (a)

$$\begin{aligned} & \text{Let the initial investment of A and B be RS } 2x \text{ and RS } 3x \text{ respectively.} \\ & \text{Let be invest for a period of } y \text{ month.} \\ & \text{Then, ratio of capitals of A and B} = (2x \times 9) \text{ is to } (3x \times y) = 1 : 2 \\ & \rightarrow \frac{18x}{3xy} = \frac{1}{2} \rightarrow y = 12 \end{aligned}$$

13. (a)

$$\begin{aligned} & \text{Let C's investment} = \text{RS } x \\ & \text{B's investment} = \text{RS}(x - 3000) \\ & \text{A's investment} = \text{RS}(x - 3000 + 6000) = \text{RS}(x + 3000) \\ & \text{Now, (A + B + C)'s investment} = \text{RS } 72000 \\ & \rightarrow x + (x - 3000) + (x + 3000) = 72000 \rightarrow x = 24000 \\ & \text{Hence, A's investment} = \text{RS } 27000 \\ & \text{B's investment} = 21000 \\ & \text{C's investment} = 24000 \\ & \text{Ratio of the capital of A, B and C} \\ & 27000 : 21000 : 24000 = 9 : 7 : 8 \\ & A's \text{ share} = \text{RS} \left( \frac{9}{24} \times 8640 \right) = \text{RS } 3240 \end{aligned}$$

14. (d)

Let B's capital is RS  $x$   
Ratio of profit of A and B  
 $= [(32000 \times 4) + (43000 \times 8)] : [(x \times 8) + (x - 2000) \times 4]$   
As the profit received by A and B are equal  
 $\rightarrow (32000 \times 4) + (43000 \times 8) = (x \times 8) + (x - 2000) \times 4$   
 $12x = 480000 \rightarrow x = 40000$   
Hence initial investment of B = 40000

15. (b)

Ratio of the share A, B and C  
 $= (8 \times 6) : (12 \times 8) : (10 \times 9) = 48 : 96 : 90 = 8 : 16 : 15$   
Let the rent paid by C = Rs  $x$   
Then,  $\frac{8}{15} = \frac{560}{x} \rightarrow x = \frac{15 \times 560}{8} = 1050$   
Hence, the rent paid by C = 1050 Rs

16. (b)

C's capita 's =  $1 - \left(\frac{1}{2} + \frac{1}{8}\right) = 1 - \frac{5}{8} = \frac{3}{8}$   
Ratio of capital's of A, B and C is  
 $= \frac{1}{2} \times \frac{1}{4} : \frac{1}{8} \times \frac{1}{2} : \frac{3}{8} \times 1 = 2 : 1 : 6$   
B's share = Rs  $\left(\frac{1}{9} \times 9900\right) = 1100$

17. (a)

Let the total profit be Rs 100  
After paying for donation, A's share = Rs  $\left(90 \times \frac{2}{5}\right) = Rs 36$   
If A's share is Rs 36, total profit = Rs 100  
If A's share is Rs 1080, total profit = Rs  $\left(\frac{100}{36} \times 1080\right) = Rs 3000$

18. (a)

Ratio of shares of A, B, C and D  
 $= (12 \times 5) : (20 \times 6) : (15 \times 5) : (30 \times 6) = 4 : 8 : 5 : 12$   
Let the total rent for the parking place be Rs  $x$   
Then, A's share = Rs  $\frac{4x}{29}$   
 $\therefore \frac{4x}{29} = 2400 \rightarrow x = \frac{2400 \times 29}{4} = 17400$   
Hence, the total rent for the parking place = Rs 17400

19. (d)

Let A and B leave the business after  $x$  months  
Ratio of capital of A, B and C is =  $90000 \times x : 60000 \times x : 45000 \times 12 = 3x : 2x : 18$   
But  $3x : 2x : 18 = 6 : 4 : 9$   
 $\rightarrow \frac{2x}{18} = \frac{4}{9} \rightarrow x = 4$   
Hence, A and B left the business after 4 months.

20. (b)

*Ratio of the capital of A and B*

$$= (75000 \times 6) + \left(75000 + \frac{75000}{5}\right) \times 6 : (90000 \times 6) + (90000 - 15000) \times 6$$

$$[(75000 \times 6) + (90000 \times 6)] : [(90000 \times 6) + (75000 \times 6)] = 1 : 1$$

*Hence, the required ratio of the profit = 1 : 1*

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