

QUANT WEEKLY BOOSTER - 18

• TOPIC •

PARTNERSHIP

(Concept+Questions+DI)



 YouTube LIVE

TIME:- 04:00 pm (Monday, 30 Aug 2021)

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New Offline + Online Batch



Targetted for IBPS AFO+PO+SBI PO

Starts from Tuesday, 7 Sept 2021

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1) R, Q and P start a business together with initial investment of Rs. 20000, Rs. 30000 and Rs. 25000 respectively. After 8 months, R and Q take out Rs. 10000 each from the investment. Total profit earned at the end of the year is Rs. 16400. Find out P's share of profit.

A. Rs. 5500

B. Rs. 6500

C. Rs. 4000

D. Rs. 6000

E. Rs. 5000

$$\begin{aligned} R &= (\cancel{20}^6 \times \cancel{8}^2) + (\cancel{10}^2 \times 4) = 10 \\ Q &= (\cancel{30}^6 \times \cancel{8}^2) + (\cancel{20}^4 \times 4) = 16 \\ P &= \underset{5}{25} \times \cancel{12}^3 = 15 \end{aligned}$$

Pre Level

$$P = \frac{15}{41} \times 16400$$

$$\begin{array}{r} 41 \quad \times 400 \quad 16400 \\ P = 15 \quad \times 400 \quad \boxed{6000} \end{array}$$

2) In a joint venture company, A and B invested Rs. 32000 and Rs. 56000 respectively. A received Rs. 1000 per month as salary for managing the business and the remaining profit was divided in the ratio of their investments. At the end of year A received a total of Rs. 20000. How much did B get?

- A. Rs. 14000
- B. Rs. 16000
- C. Rs. 22000
- D. Rs. 35000
- E. None of these

$$\frac{A}{B} = \frac{32}{56} = \frac{4}{7} \quad \frac{8000}{14000}$$

$$A(\text{Profit}) = [1000 \times 12] + [8000] = 20000$$

Pre Level

3) Shyam and Ram entered into a partnership with investment in the ratio 3 : 2 respectively. Among them, Ram is the working partner for which he gets 10% of the profit and Shyam is the sleeping partner. If at the end of one year they earned a profit of Rs. 75000 out of which 5% goes to the charity. Find the share of Ram in the profit

- A. Rs. 32000
- B. Rs. 38750
- C. Rs. 45750
- D. Rs. 35000
- E. None of these

Pre Level

$$\text{Ram} = [10\%] + \left[\frac{2}{5} \times 85\% \right]$$

$$= [10\%] + [34\%] = 44\% \text{ of } 75000$$

$$= 11\% \text{ of } 300000$$

$$= \boxed{33000}$$

4) Two friend A and B invested in a business together Rs. 45000. At the end of 6 months, A withdraws half of his investments but B added 2 times of A's initial investments. At the end of one – year, the share of B in the profit was 50% more than that of A. The initial investment of A was how much more than/less than that of B?

- A. Rs. 36000 more
- B. Rs. 18000 more
- C. Rs. 3000 less
- D. Rs. 27000 more
- E. None of these

Pre Level

$$\begin{aligned}
 &A = 2x \quad B = y \\
 &\frac{A}{B} = \frac{(2x \times 6) + (x \times 6)}{(y \times 12) + (4x \times 6)} = \frac{2}{3}
 \end{aligned}$$

$$9x = 4y + 8x$$

$$\frac{x}{y} = \frac{4}{1}$$

$$\begin{aligned}
 A &= 2x = 8 \\
 B &= y = 1
 \end{aligned}$$

$$\begin{array}{r}
 9 \times 5000 \quad 45000 \\
 7 \times 15000 \quad 105000 \\
 \hline
 \end{array}$$

5) Annie, Vishal and Rani started a business with their capital Rs. 2000, Rs. 3000 and Rs. 4000 respectively. They invested for X , $(X - 2)$ and $(12 - X)$ months respectively. At the end of the year, if the ratio of the profit share of Vishal to that of Rani is $9 : 8$, then find the value of X ?

~~A. 6~~

~~B. 10~~

C. 8

~~D. 9~~

~~E. 7~~

$$\frac{V}{R} = \frac{3 \times (X-2)}{4 \times (12-X)} = \frac{9}{8}$$

$$2X - 4 = 36 - 3X$$

$$5X = 40$$

$$\boxed{X = 8}$$

Pre Level

$$\frac{V}{R} = \frac{3(X-2)}{4(12-X)} = \frac{9}{8}$$

6) Dhawan and Satish started a start-up by investing Rs. 35000 and Rs. 21000 respectively. The ratio of months invested by Dhawan to Satish is "p : q" and the number of months for which Satish invested into the business was 4 less than the number of month for which Dhawan invested. If the ratio of the total profit to the share of Dhawan was 7 : 5, then find p : q.

A. 2 : 5

B. 1 : 3

C. 1 : 2

D. 3 : 4

E. 3 : 2

$$\frac{D}{S} = \frac{35 \times P}{21 \times Q} = \frac{5}{2}$$

$$P - Q = 4$$

$$P = Q + 4$$

$$\frac{P}{Q} = \frac{3}{2}$$

1	4
3	12
2	8

Pre Level

$$\frac{P}{S} = \frac{35}{21} = \frac{5 \times 7}{3 \times 7} = \frac{5}{2}$$

7) Meenu and Reena entered into a partnership with investment of Rs. 56000 and Rs. 78000 respectively. After one year while Meenu invested Rs. 32000 more and Reena invested Rs. 18000 more than her initial investment. At the end of two years they earned a profit of Rs. 31800. While Reena is a dormant partner, Meenu is a working partner for which she gets 5% of the profit as remuneration and rest of the profit is divided among them in the ratio of their investments. Find the share of Meenu in the profit.

Mains Level

A. Rs. 15020

B. Rs. 15080

C. Rs. 15270

D. Rs. 16500

E. None of these

$$\frac{M}{R} = \frac{[56 \times 12] + [88 \times 12]}{[78 \times 12] + [96 \times 12]} = \frac{144}{174} = \frac{32}{87}$$

$$\begin{aligned} \text{Meenu} &= \left[5\% \text{ of } 31800 \right] + \left[95\% \text{ of } 31800 \times \frac{32}{159} \right] \\ &= [1590 + 13680] = [15270] \end{aligned}$$

8) P and R entered into partnership business with the capital of Rs. x and

Rs. (x + 12000), after One year Q joined them with capital of Rs. (x + 8000) at the

end of 2nd year P and Q withdraw their capital and R invest for one more year, if P,

Mains Level

Q and R gets profit in the ratio of 8 : 6 : 21 respectively. Find sum of capital invested

by all three ?

- a) 66000 Rs.
- b) 54000 Rs.
- c) 64000 Rs.
- d) 68000 Rs.
- e) 70000 Rs.

$$\frac{P}{Q} = \frac{x \times 24}{(x+8000) \times 12} = \frac{8}{6} = \frac{4}{3}$$

$$3x = 2x + 16000$$

$$x = 16000$$

$$P = x = 16000$$

$$Q = x + 8000 = 24000$$

$$R = x + 12000 = 28000$$

$$68000$$

9) M and N started a business with capital Invested in ratio of 5 : 6. Both of them decided to individually withdraw Rs. 50,000 per month as their salary. At the end of the year, profit was divided between M and N. Remuneration of M is equal to the profit to be given to him. If the profit at the end of the year is 24 % of the capital Invested, then what is the amount of capital Invested by M?

- A. Rs. 25,00,000
- B. Rs. 35,00,000
- C. Rs. 30,00,000
- D. Rs. 40,00,000
- E. Rs. 50,00,000

Mains Level

$$\frac{M}{N} = \frac{5}{6} \quad \boxed{6,00,000}$$
$$\left. \begin{array}{l} M(\text{Salary}) = 50,000 \times 12 = 6,00,000 \\ M(\text{Profit}) = 6,00,000 \end{array} \right\} \begin{array}{l} 24\% \text{ --- } 6,00,000 \\ 100\% \text{ --- } \boxed{2,50,000} \end{array}$$

E) 58100

$$(C) - (A + B) = 52 - 41 = 11$$

$\begin{array}{r} \times 1125 \\ 52 \quad \underline{} \\ 13 \quad \underline{4560} \end{array}$

58500

58500

11) P, Q and R entered into a partnership with their initial capital in the ratio of 3 : 5 : 8 respectively. After third month P withdrew $\frac{1}{3}$ rd of his initial capital and Q withdraw half of his initial capital. After next six months P increased his capital by 100% more, Q increased by 300% more and R increased by 25% more . If at the end of an year, difference between profit share of Q and R was Rs. 7000, then find profit share of P?

Mains Level

- (A) 5500 Rs.
- (B) 5000 Rs.
- (C) 6500 Rs.
- (D) 5200 Rs.
- (E) 4500 Rs.

12) P, Q and R enter into a partnership business. P is a managing partner of business and he invests only for first eight months, Q invested 20% more than P and R invested $16\frac{2}{3}\%$ more than Q for first six months. After six months Q and R withdraw $33\frac{1}{3}\%$ and $1/7^{\text{th}}$ of their initial investment. At the end of a year P gets 11% of total profit for managing business and remaining profit distributed among three accordingly their investment. if total profit share of P is Rs. 1680 more than profit share of R, then find the profit share Q?

- (A) 4200 Rs
(B) 6300 Rs.
(C) 6390 Rs.
(D) 4820 Rs.
(E) 4800 Rs

$$\begin{aligned} P &= [5 \times 8] = 40 = 20 \\ Q &= [6 \times 6] + [4 \times 6] = 60 = 30 \\ R &= [7 \times 6] + [6 \times 6] = 78 = 39 \end{aligned}$$

$$\begin{aligned} \text{Total Profit} &= 100 \\ \left. \begin{aligned} P &= 11 + 20 = 31 \\ R &= 39 \end{aligned} \right\} \begin{aligned} 8 &\xrightarrow{\times 210} 1680 \\ 30 &\xrightarrow{\quad\quad\quad} 6300 \end{aligned} \end{aligned}$$

Mains Level

13) P starts a business with a capital of Rs.1600. After 4 months, Q joins and further four months later, R joins them. The amount of capital invested by Q and R is Rs ____ and Rs _____ respectively, At the end of the year, their shares of profit are in the ratio of 6 : 8 : 5 respectively?

- A.3200, 4000
- B.2000, 5000
- C.3200, 5000
- D.4000, 3200
- E.5000, 3200

Mains Level

The investments made by an individual are for the same period. The investment of Bikram in 1991 is Rs. 40000 and is equal to the investment of Chandan in 1993. The total investment in 1994 is Rs. 24000 and the ratio of investments of Arjun, Bikram and Chandan is 8 : 9 : 7 respectively. The investments of Arjun in 1991, 1992 and 1993 are Rs. 32000, Rs. 48000 and Rs. 44000 respectively. The investment of Chandan in 1991 and 1992 are same i.e. Rs. 22000. The investment of Bikram in 1993 is Rs. 6000 more than the investment by him in 1992 i.e. Rs. 30000.

Caselet DI

	1991	1992	1993	1994
B	40000	30000	36000	9000-
C	22000	22000	4000	7000
A	32000	48000	44000	8000-
				<hr/> 24000

- If the amount of profit shared by Arjun and Bikram in 1994 is Rs. 4000 and Rs. 4500 respectively and Chandan makes $\frac{3}{4}^{\text{th}}$ of the profit in 1995 as compared to his profit in 1994. Find the amount of Profit shared by Chandan in 1995?

$$\text{1995} = \frac{3}{4} \times 3500 =$$

- Suppose all the VCs invested for one more year i.e. 1995 and the total investment of Arjun and Bikram is Rs. 56000 and invested their amounts for 24 and 16 months respectively, find for how many months Chandan invested his amount of Rs. 64,000? [Given profits of Arjun, Bikram and Chandan are Rs. 12600, Rs. 11200 and Rs. 16800 respectively]
- The profit earned by Bikram in 1996 is 8% of the investment made by Bikram in 1992 and the profit of Chandan in 1996 is 10% of the investment made by Chandan in 1992. Find the ratio of profit of Chandan in 1996 to that of Bikram in 1996.



THANK YOU!