Bipin Nambiar
(SBI PO 2018)

Shiraz Khan
(SBI Clerk 2018)

Kuldeep Yadav
(SBI PO 2018)

Rajat Saxena
(IBPS Clerk 2018)

Anupam Tyagi
(IBPS PO 2018)

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DI Info Chart Questions for SBI Clerk Mains, IBPS Clerk Mains, LIC AAO, SBI PO Pre, IBPS PO Pre and RRB Scale I Pre Exams.

DI Info Chart No 29

Directions: Study the following information carefully and answer the questions given beside.

The information given below is the investment of three Venture capitalists in a partnership for the period of 1991 – 1995.

The investments made by an individual are for the same period. The investment of Bikram in 1991 is Rs. 40000 and is equal is 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.

1. **Find the share of profit earned by Bikram in the year 1993, if the total profit in 1993 is Rs. 15000?**

A. Rs. 4250   B. Rs. 4050   C. Rs. 4500   D. Rs. 4400   E. Rs. 3600

2. **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]**

A. 16 months   B. 21 months   C. 15 months   D. 6 months   E. 12 months

3. **If the share of profit of Chandan in 1991 and 1992 is Rs. 7700 and Rs. 8800 respectively, find the ratio of profit of Arjun in 1991 to that in 1992?**

A. 1 : 2   B. 1 : 4   C. 12 : 7   D. 7 : 12   E. 3 : 4

4. **If the amount of profit shared by Arjun and Bikram in 1994 is Rs. 4000 and Rs. 4500 respectively and Chandan makes 3/4th of the profit in 1995 as compared to his profit in 1994. Find the amount of Profit shared by Chandan in 1995?**

A. Rs. 2625   B. Rs. 3000   C. Rs. 2265   D. Rs. 3500   E. Rs. 6225

5. **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.**

A. 12 : 11   B. 11 : 12   C. 1 : 12   D. 15 : 11   E. None of these

Correct Answers:

1	2	3	4	5
C	E	D	A	B

Explanations :

1.

Year	Investment by Venture Capitalists		
	Arjun	Bikram	Chandan
1993	44000	36000	40000

Ratio of profit = 44000 : 36000 : 40000
Ratio of profit = 44 : 36 : 40
So the profit shared by the venture capitalist would be in the ratio of 44 : 36 : 40

Share of Bikram = $\dfrac{36}{120}$ × 15000 = 4500

Hence, option C is correct.

2.

1995	Investment	Profit	Months
Arjun	56000	12600	24
Bikram		11200	16
Chandan	64000	16800	

Let A and B be the investment made by Arjun and Bikram respectively.

$\dfrac{24A}{16B} = \dfrac{12600}{11200}$

$\dfrac{12A}{8B} = \dfrac{126}{112}$

$\dfrac{A}{B} = \dfrac{126 \times 8}{12 \times 112} = \dfrac{3}{4}$

Therefore, investment of Arjun = $\dfrac{3}{7}$ × 56000 = 24000

So, the investment made by Bikram = 32000
Let, Chandan invested for C months
So, the ratio of Arjun and Chandan's profit

$\dfrac{24000 \times 24}{64000 \times C} = \dfrac{12600}{16800}$

C = 12
Hence, option E is correct.

3.

Year	Investment		Profit	
	Arjun	Chandan	Arjun	Chandan
1991	32000	22000	A	7700
1992	48000	22000	B	8800

For the year 1991,

$$\frac{32000}{22000} = \frac{A}{7700} \; ; A = 11200$$

For the year 1992,

$$\frac{48000}{22000} = \frac{A}{8800} \; ; B = 19200$$

So, the ratio of profits of Arjun

$$\frac{11200}{19200} = \frac{112}{192} = \frac{28}{48} = \frac{7}{12}$$

Hence, option D is correct.

4. For the year 1994,

$$\text{Profit of Chandan} = \frac{8000}{7000} = \frac{4000}{C} \; ; c = \frac{7 \times 4000}{8} = 3500$$

So, amount of Profit shared by Chandan in 1995

$$= 3500 \times \frac{3}{4} = 2625$$

Hence, option A is correct.

5.

Year	Investment	
	Bikram	Chandan
1992	30000	22000

For the year 1996,

Profit of Bikram = $\dfrac{8}{100} \times 30000$ = Rs. 2400
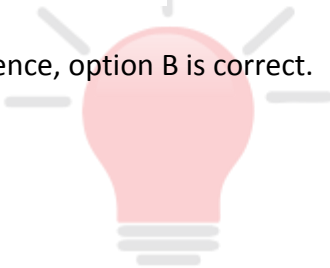
For the year 1996,

Profit of Chandan = $\dfrac{10}{100} \times 22000$ = Rs. 2200

So, the ratio of profit of Chandan in 1996 to that of Bikram in 1996

$\dfrac{2200}{2400} = \dfrac{22}{24} = \dfrac{11}{12}$

Hence, option B is correct.