Partnership Questions for SBI PO Prelims

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Partnership

1.Vimal and Amal started the business with the investment of Rs.3000 and Rs.4000 respectively. After some months, Diya enter into partnership with the investment of Rs.3000. At the end of year, Vimal's share is 40% of the total profit of the business, after how many months did Diya invest her amount?

A.4 months
B.2 months
C.8 months
D.7 months
E.10 months

2. **Virat and Anushka together started a business with the initial investment of Rs.8000 and Rs.16000 respectively and the time period of investment for Virat and Anushka in the ratio of 4:3. If the profit of Virat is Rs.4000, then find the profit of Anushka?**

A.Rs.9000
B.Rs.3000
C.Rs.6000
D.Rs.12000
E.None of these

3. **A started the business with the investment of Rs.6000. After 4 months, B joined him with the investment is 25% more than the initial investment of A. At the end of year, A received Rs.2700 as profit share out of the total profit, then find the profit share of B?**

A.Rs.2250
B.Rs.2450
C.Rs.2500
D.Rs.2000
E.None of these

4. **Nisha, Manisha and Oviya started the business with the investment in the ratio of 1/3:4/5:5/6 respectively. After 6 months Manisha left the business. At the end of year, the total profit of the business is Rs.14100, find the profit of Nisha?**

A.Rs.2700
B.Rs.2800
C.Rs.2400
D.Rs.3000
E.Rs.3200

5. **A and B started the business with the investment of Rs.4200 and Rs.4800 respectively. After 3 years, C joined the business with the investment of Rs.4000. At the end of 12 years, the total profit of the business is Rs.7200. Find the profit of B?**

A.Rs.2400
B.Rs.2600
C.Rs.2880
D.Rs.3000
E.Rs.3200

6. **There are two partners P and Q enters into a partnership with the capital of Rs.(x + 1000) and Rs.(x**

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+ 3000) respectively. After 5 months, R joined him with the capital of Rs.(x + 7000). The ratio of the profit shares of P, Q and R at the end of one year is 2: 3: 5 respectively. Find the sum of the capitals invested by P, Q and R together.

A.Rs.10000

B.Rs.20000

C.Rs.30000

D.Rs.40000

E.None of these

7. **Arjun invested Rs.500 while Badri invested Rs.800 in a partnership business. After 1 year, Arjun withdrew Rs.200 while Badri withdrew Rs.300 and Keshav joined them with a capital of Rs.600. Find the profit share of Keshav, if the total profit received by all of them after 3 years is Rs.2050.**

A.Rs.250

B.Rs.300

C.Rs.450

D.Rs.600

E.None of these

8. **Vishnu and Anu started the business with the investment of Rs.(x + 500) and Rs.(x – 1000) respectively. After 1 year Vishnu withdrew Rs.1500 and Anu withdrew Rs.500. At the end of two years, the total profit of the business is Rs.20800 and the profit of Vishnu is Rs.12000. Find the value of x?**

A.Rs.3200

B.Rs.3600

C.Rs.4000

D.Rs.4500

E.Rs.5000

9. **P and Q started a partnership business with the capital of Rs.15000 and Rs.12000 respectively. After certain months, R joined with the capital of Rs.45000. After 1 year, the ratio of the profit obtained by them is 2: 5: 2 respectively. After how many months did R invest his capital?**

A.2

B.4

C.6

D.8

E.None of these

10. **Yashni and Yuvi started the business with the investment of Rs.3000 and Rs.3200 respectively. After 5 months Yashika joined with the investment of Rs.2800. At the end of 15 months Yashni left the business, then what is the profit ratio of Yashni, Yuvi and Yashika after 20 months?**

A.45:64:42

B.42:63:41

C.42:64:45

D.45:60:44

E.45:60:40

11. **Modi and Nirmala started the business and investing the total amount is Rs.18000. After one year Modi added 25% more for his initial investment and Nirmala withdrew 30% of his initial investment. At**

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the end of 2 years, the total profit of the business is Rs.7000 and the profit share of Nirmala is Rs.3400. Find the initial investment of Modi?

A.Rs.10000

B.Rs.8000

C.Rs.12000

D.Rs.7000

E.Rs.9000

12. **Gifty and Lifty started the business with the investment of Rs.5000 and Rs.6000 respectively. After 8 months, Gifty withdrew Rs.2000. At the end of year, they earned the total profit of Rs.9300. What is the sum of the three-fourth of the profit of Gifty and one-fourth of the profit of Lifty?**

A.Rs.4275

B.Rs.4280

C.Rs.4355

D.Rs.4365

E.None of these

13. **Ambi, Bommi and Tomi started the business with the investment of Rs.15000, Rs.18000 and Rs.6000 respectively. After 4 months, Ambi left the business. x months after Bommi also left the business. At the end of the year, the profit of Bommi is 80% more than Ambi. Bommi invests her capital for how many months?**

A.8 months

B.6 months

C.10 months

D.7 months

E.Cannot be determined

14. **Sahitya started a business by investing Rs.2700. After 6 months Santhosh joined with him by investing Rs.2000. At the end of 3 years they gained Rs.131000 then find the Sahitya's share?**

A.62000

B.57000

C.34000

D. 81000

E.60431

15. **A and B started the business with the investment of Rs.x and Rs.(x + 2000) respectively and the time period of A and B is 12 months and 10 months respectively. If the total profit of the business is Rs.19600 and the profit of A is Rs.9600, then find the investment of B?**

A.Rs.10000

B.Rs.12000

C.Rs.8000

D.Rs.14000

E.Rs.6000

16. **P started a business investing Rs. 57,250. Q Joined him after six months with an amount of Rs. 68,700 and R Joined them with Rs.80,150 after another six months. The amount of profit earned should be distributed in 3 years after P started the business. Find the share of R if the total profit is Rs. 81,400?**

A.Rs. 21,650

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B.Rs. 25,900

C.Rs. 26,745

D.Rs. 28,928

E.None of these

17. **P, Q, R started a business by investing , 15000, 20000, 30000 respectively. At the end of the year, they got profit of 10140. Find P's Share?**

A.3150

B. 2250

C.2340

D.4230

E.1233

18. **Einstein, Newton and Edison started the business with the investment in the ratio of 1/24:4/27:8/31 respectively. Einstein invests his capital for 2 years and Newton invests his investment for 75% of the investment period of Einstein and the investment period of Edison is 13 months more than Newton. What is the profit ratio of Einstein, Newton and Edison at the end of business?**

A.3:4:11

B.1:3:8

C.3:2:6

D.3:8:22

E.None of these

19. **A and B started the business with the investment of Rs.6000 and Rs.9000 respectively. After 6 months C joined with the investment of Rs.8000 and A withdrew Rs.1000 and B added Rs.1000. If at the end of the year the total profit of the business is Rs.19000, then find the profit share of C?**

A.Rs.2000

B.Rs.4000

C.Rs.6000

D.Rs.8000

E.None of these

20. **P and Q entered into a partnership business. P invested Rs.7000 and Q invested Rs.9400. After 5 months, R entered with the amount of Rs.8600. If Q withdrew all his investment after 7 months, find the profit of R at the end of the year. Total profit received is Rs.15000.**

A.Rs.4000

B.Rs.4100

C.Rs.4200

D.Rs.4300

E.None of these

21. **Kamala and Biden started the business with the investment of Rs.x and Rs.24000 respectively. At the end of one year, the profit of Kamala and Biden in the ratio of 4:5, then find the value of x?**

A.Rs.18600

B.Rs.18800

C.Rs.19000

D.Rs.19200

E.Rs.19600

22. **P and Q started a business by investing the amount of Rs.4000 and Rs.6000 respectively. After 4 months,**

R joined them with the amount of Rs.8000. Find the total profit after 1 year, if the difference between the profit of P and R is Rs.500.

A.Rs.4050

B.Rs.5750

C.Rs.6210

D.Rs.7350

E.None of these

23. **Bala started the business with the investment of Rs.8000 and invests his amount for x months while Mala invested Rs.2000 more than that of Bala and invests her amount for 18 months. At the end of business the total profit of the business is Rs.14500 and the profit share of Mala is Rs.7500, find the value of x?**

A.12

B.15

C.18

D.20

E.None of these

24. **P and Q started a partnership business with the capital of Rs.15000 and Rs.12000 respectively. After certain months, R joined with the capital of Rs.45000. After 1 year, the ratio of the profit obtained by them is 2: 5: 2 respectively. After how many months did R invest his capital?**

A.2

B.4

C.6

D.8

E.None of these

25. **Saran and Anand started a partnership business with investment of Rs.1500 and Rs.3400 respectively. After 4 months, Saran and Anand increased their investment by 15% and 25% respectively. What is the profit of Saran after 1 year, if the total profit earned is Rs.6740.**

A.Rs.1540

B.Rs.1680

C.Rs.1790

D.Rs.1980

E.None of these

26. **Aman started a business with an investment of Rs. 50,000. Raman joins him after 6 months with a investment 20% less than the investment of Aman. If Aman withdraws 5 months before the end of the year, then find the profit of Aman is how much percentage more or less than Raman?**

A.33.33%less

B.37.75% more

C.50.55%less

D.45.83% more

E.Cannot be determined

27. **Nitin and Jatin invested Rs. 60,000 each and started a business. After one year Nitin invests an additional amount of Rs. 30,000 and Jatin withdraws Rs. 10,000. At the end of two years they earn a profit of Rs. 74,100. Find the share of Nitin in the profit?**

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A.Rs. 42,750

B.Rs. 43,128

C.Rs. 44,320

D.Rs. 38,915

E.None of these

28. **Homer, Shiv and Bern started the business. If the investment of Bern is 25% more than Shiv and the investment of Homer 25% less than Shiv and at the end of business Homer's profit is half of the profit share of Bern and the profit share of Shiv is 6(2/3)% more than the profit share of Homer. Find the ratio of the investment period of Homer, Shiv and Bern?**

A.3:4:9

B.3:2:5

C.4:3:5

D.5:4:6

E.None of these

29. **Raman starts business with Rs.8700 and after 7 months, Saranya joins with Raman. After 1 year, the profit is divided between them in the ratio 4: 3. What is Saranya's investment?**

A.Rs.15660

B.Rs.15700

C.Rs.18900

D.Rs.18090

E.None of these

30. **Pravin and Saju entered into a partnership business with investments of Rs.(a + 200) and Rs.(a + 50) respectively. After 1 year, Pravin and Saju added an extra amount of Rs.150 and Rs.50 such that the ratio of their profit shares at the end of 2 years is 4: 3. Find the value of a.**

A.520

B.525

C.580

D.590

E.None of these

31. **Pavan started a business investing Rs.9000 and after 4 months, Hari joined him. If the profit is divided in the ratio 3: 4 after a year, then find the amount invested by Hari.**

A.Rs.12000

B.Rs.14000

C.Rs.16000

D.Rs.18000

E.None of these

32. **P and Q entered into a partnership business. P invested Rs.7000 and Q invested Rs.9400. After 5 months, R entered with the amount of Rs.8600. If Q withdrew all his investment after 7 months, find the profit of R at the end of the year. Total profit received is Rs.15000.**

A.Rs.4000

B.Rs.4100

C.Rs.4200

D.Rs.4300

E.None of these

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33. **Nilan invested Rs.12000 in a business. Fazil joined him after n months with an investment of Rs.6000 less than Nilan. If the ratio of the profits received by them after 3 years is 5: 2, then find the time after which Fazil joined.**

A.7 months

B.8 months

C.7.2 months

D.8.5 months

E.None of these

34. **The monthly income of A and B in the ratio of 5:6 and the ratio of the expenses of A and B is 3:4. If the ratio of the savings of A and B is 1:1 and the difference between the expenses of A and B is Rs.10000, then find the savings of A?**

A.Rs.10000

B.Rs.15000

C.Rs.20000

D.Rs.25000

E.Rs.30000

35. **A and B entered into a partnership by investing Rs.15000, Rs.24000 respectively. After that A changed his investments by +20%, +25%, +30% more than the previous investments for the next consecutive years, while B changed as +16.66%, +25%, +40%. Find the profit ratio after the mentioned time period?**

A.339:514

B.339:524

C.339:474

D.339:434

E.339:544

36. **Ravi and Raj invested a certain amount in a private bank for a period of 6 months and 8 months respectively. The profit ratio of Ravi and Raj is 4: 3. If they invested Rs.9000, find the amount invested by Ravi.**

A.Rs.4200

B.Rs.4850

C.Rs.5760

D.Rs.6400

E.None of these

37. **Anu and Rana invested amounts in the ratio 2: 3 in a partnership business. Anu and Kavya invested amounts in the ratio 3: 4. If their annual profit Rs.115000, then find Kavya's share in the profit?**

A.Rs.10000

B.Rs.20000

C.Rs.40000

D.Rs.50000

E.None of these

38. **Anu and Rana invested amounts in the ratio 2: 3 in a partnership business. Anu and Kavya invested amounts in the ratio 3: 4. If their annual profit Rs.115000, then find Kavya's share in the profit?**

A.Rs.10000

B.Rs.20000

C.Rs.40000

D.Rs.50000

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E.None of these

39. **P started a fruit business by investing Rs.20000. After 4 months, Q joined him with an amount of Rs.30000. After 2 years, they earned a profit of Rs.36000. What was P's share in the profit?**

A.Rs.10000

B.Rs.12000

C.Rs.16000

D.Rs.20000

E.None of these

40. **X, Y and Z start a business. Ratio of investment of X and Y is 5 : a while ratio of investment of Y and Z is 7 : 10. X, Y and Z invested for 8 months, 6 months and 12 months respectively. Then find the value of a, if out of total profit of Rs. 3130, in which X shared a profit of Rs. 700?**

A.4

B.6

C.8

D.9

E.None of these

41. **Amit, Rishi and Vinod invested Rs 15000, 10000 and 5000 respectively in partnership business. The annual profit share of Vinod is Rs 15000 out of the total profit of Rs 60000 and the profit share of Amit is Rs 15000 more than the profit share of Rishi. Then, find the ratio of time period of investment of Amit, Rishi and Vinod in the partnership.**

A.4:3:6

B.4:3:5

C.2:3:5

D.3:4:7

E.None of these

42. **A, B and C started the business with the investment of Rs.5000, Rs.7000 and Rs.8000 respectively. After 6 months A added Rs.x for his initial investment and B withdrew Rs.(x + 1000) for his initial investment. At the end of one year the total profit of the business is Rs.19500, find the profit share of B?**

A.Rs.9000

B.Rs.11000

C.Rs.12000

D.Rs.8000

E.Cannot be determined

43. **Raghu and Samuel invested in a partnership business. They received some profit at the end of the year. They divided the profit in the ratio of 3: 4. What amount is invested by Samuel, if Raghu invests Rs.24000?**

A.Rs.8000

B.Rs.16000

C.Rs.24000

D.Rs.32000

E.None of these

44. **A started the business with an amount of Rs Z. B invested 160% of the A's investment. C started the business with 33 1/3 % of the total amount of B. If the**

annual profit is 75200, then what amount did B invested in the business?

A.Rs. 3200

B.Rs. 2950

C.Rs. 1850

D.Rs. 3920

E.None of these

45. **Mithun and Nirmal started the business with the investment of Rs.8000 and Rs.12000 respectively. After 6 months Divya joined with the investment of Rs.14000. At the end of year the total profit of the business is Rs.20250, find the profit share of Mithun?**

A.Rs.8000

B.Rs.10000

C.Rs.5000

D.Rs.6000

E.Rs.4000

46. **A, B and C started the business with an investment in the ratio of 2:3:6. After one year, A, B and C added the addition investments of Rs.4800, Rs.3900 and Rs.5600 respectively. At the end of 2 years the total profit of the business is Rs.33000, find the profit share of B?**

A.Rs.8000

B.Rs.9000

C.Rs.12000

D.Rs.10000

E.Cannot be determined

47. **P and Q started a partnership business together with investment of Rs.2000 and Rs.3800 respectively. After 4 months, P and Q increased their invested amount by 10% and 15% respectively. What is the profit share of P after completion of 1 year, if the total profit earned in the year is Rs.5400.**

A.Rs.1500

B.Rs.1600

C.Rs.1700

D.Rs.1800

E.None of these

48. **A, B and C started the business with the investment in the ratio of 2:3:4 and the investment period of A, B and C is 8 months, 10 months and 6 months respectively. At the end of business the difference between the profits shares of A and C is Rs.4000, find the total profit of the business?**

A.Rs.35000

B.Rs.40000

C.Rs.42000

D.Rs.28000

E.None of these

49. **A, B and C started the business with the investment of Rs.13000, Rs.16000 and Rs.15000 respectively. After 4 months A added Rs.3000 for his initial investment. After 4 more months, C withdrew Rs.3000. At the end of year the total profit of the business is Rs.36000. Find the profit share of C?**

A.Rs.11200

B.Rs.11400

C.Rs.11600

D.Rs.11800

E.None of these

50. **A started the business with the investment of Rs.18000 and after 4 months B and C joined with the investment of Rs.16000 and Rs.20000 respectively. At the end of one year the total profit of the business is Rs.31500, what is the profit share of B?**

A.Rs.4000

B.Rs.6000

C.Rs.12000

D.Rs.8000

E.Rs.10000

Partnership - Answer and Explanation

1.Answer: E

Profit ratio of Amal, Vimal and Diya = 4000 * 12:3000 * 12:3000 * x

= 48:36:3x

36/(84 + 3x) = 40/100

33.6 + 1.2x = 36

x = 2

Diya invested after (12 – 2) = 10 months

2.**Answer: C**

Profit ratio of Virat and Anushka = 8000 * 4x: 16000 * 3x

=2:3

Profit of Anushka = 3/2 * 4000 = Rs.6000

3.**Answer: A**

Profit share of A and B = 6000 * 12: 6000 * 125/100 * 8

= 72000 : 60000

= 6:5

Profit share of B = 5/6 * 2700 = 2250

4.**Answer: D**

Profit ratio of Nisha, Manisha and Oviya = 1/3 * 12:4/5 * 6:5/6 * 12

= 4:24/5:10

= 20:24:50

= 10:12:25

Profit share of Nisha = 10/47 * 14100

= 3000

5.**Answer: C**

Profit ratio of A, B and C = 4200 * 12:4800 * 12:4000 * 9

= 42*4:48*4:40*3

= 7:8:5

Profit share of B = 8/20 * 7200

= 2880

6.Answer: B

(x + 1000)/(x + 3000) = 2/3

=> x = 3000

Required sum = x + 1000 + x + 3000 + x + 7000 = Rs.20000

7.**Answer: D**

Profit ratio of Arjun, Badri and Keshav = (500 * 1 + 300 * 2): (800 * 1 + 500 * 2): (600 * 2)

= 11: 18: 12

Profit share of Keshav = 2050 * 12/41 = Rs.600

8.**Answer: C**

Profit share of Vishnu and Anu = ((x + 500) * 1 + (x + 500 – 1500) * 1):((x – 1000) * 1 + (x – 1000 – 500) * 1)

= (2x – 500):(2x – 2500)

(2x – 500)/(4x – 3000) = 12000/20800

120x – 90000 = 104x – 26000

x = 4000

9.Answer: D

(15000 * 12): (45000 * (12 – x)) = 2: 2

=> x = 8 months

10.Answer: A

Required ratio = 3000 * 15:3200 * 20:2800* 15

= 45:64:42

11.Answer: B

Investment of Modi = x

Investment of Nirmala = 18000 - x

Ratio of the Profit share of Modi and Nirmala = (x * 1 + x * 125/100 * 1):((18000 – x) * 1 + (18000 – x) * 70/100 * 1)

= (x + 5x/4): (18000 – x + 12600 – 7x/10)

(9x/4)/((306000 – 17x)/10) = (7000 – 3400)/3400

(5508000 – 306x)/10 = 153x/4

x = 8000

12.Answer: A

Ratio of the profit share of Gifty and Lifty = (5000 * 8 + 3000 * 4):6000 * 12

= 52000:72000

= 13:18

Profit share of Gifty = 13/31 * 9300 = Rs.3900

Profit share of Lifty = 18/31 * 9300 = Rs.5400

Required sum = 3/4 * 3900 + 1/4 * 5400= Rs.4275

13.Answer: B

Profit ratio of Ambi, Bommi and Tomi = 15000 * 4:18000 * x:6000 * 12

= 60:18x:72

= 10:3x:12

10/3x = 100/180

15x = 90

x = 6

14.Answer: D

Sahitya invests Rs.2700 for 3 years (36 months). And santhosh invests Rs.2000 for 30 months. Then, sahitya: santhosh = (2700 x 36) : (2000 x 30) =81: 50

Therefore, Sahitya’s share = Rs.(81/131 x 131,000) = Rs.81000

Hence the answer is Rs.81,000.

15.Answer: A

Ratio of the Profit share of A and B = x * 12:(x + 2000) * 10

= 6x:(5x + 10000)

6x/(5x + 10000) = 9600/(19600 – 9600)

120x + 240000 = 150x

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x = 8000

B's investment = 8000 + 2000 = 10000

B's investment = 8000 + 2000 = 10000

16.Answer: B

Ratio of profit share is given by the ratio of = (investment× time)

Ratio of their investment of P, Q and R is,

= 57,250 : 68,700 : 80,150

= 5 : 6 : 7

Ratio of the time for which they invested is,

= 12 × 3 : 6 + (12 × 2) : (12 × 2)

= 36 : 30 : 24

= 6 : 5 : 4

So, the profit sharing ratio of P, Q and R is,

= (5 × 6) : (6 × 5) : (7 × 4)

= 30 : 30 : 28

= 15 : 15 : 14

Thus, the share of profit of R is = 14/44 × 81,400 =>Rs. 25,900

17.Answer: C

Ratio of shares of P, Q, R = ratio of their investments

= 15000: 20000: 30000

=15: 20: 30

= 3: 4: 6

P's share = 3/13*10140

= 2340

18.Answer: E

Investment period of Einstein = 24 months

Newton investment period = 24 * 75/100 = 18 months

Edison investment period = 18 + 13 = 31 months

Required ratio = 1/24 * 24:4/27 * 18:8/31 * 31

= 1:8/3:8

= 3:8:24

19.Answer: B

Profit ratio of A, B and C = (6000 * 6 + 5000 * 6):(9000 * 6 + 10000 * 6):(8000 * 6)

= 66:114:48

= 11:19:8

Profit share of C = 8/38 * 19000

= Rs.4000

20.Answer: D

Required ratio = (7000 * 12): (9400 * 7): (8600 * 7)

= 60: 47: 43

Profit of R = 15000 * 43/150 = Rs.4300

21.Answer: D

Profit share of Kamala and Biden = 4:5

(x * 12)/(24000 * 12) = 4/5

x = 19200

22.Answer: B

Profit share of P, Q and R = (4000 * 12): (6000 * 12): (8000 * 8)

= 6: 9: 8

Total profit = 500/(8 – 6) * 23 = Rs.5750

23.Answer: E

Profit share of Mala = 7500

Profit share of Bala = 14500 – 7500 = 7000

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(8000 * x):((8000 + 2000) * 18) = 7000:7500

8x/180 = 14/15

8x = 168

x = 21

24.Answer: D

(15000 * 12): (45000 * (12 – x)) = 2: 2

=> x = 8 months

25.Answer: D

Profit ratio = (1500 * 4 + 1.15 of 1500 * 8): (3400 * 4 + 1.25 of 3400 * 8)

=19800:47600

= 99: 238

Profit share of Saran = 99/(99 + 238) * 6740 = Rs.1980

26.Answer: D

Aman invested Rs. 50,000 for 7 months.

So, his total investment is = Rs. 3,50,000

Raman invested Rs. 40,000 for 6 months.

So his total investment is = Rs. 2,40,000

Now, the profit sharing ratio is = 3,50,000 : 2,40,000

= 35 : 24

Thus, the required percentage is = (35 – 24)/24 × 100 => 45.83% more

Hence, the required answer is = **45.83% more**

27.Answer: A

Profit sharing ratio of Nitin and Jatin is as follows:

= (60,000 × 12 + 90,000 × 12) : (60,000 × 12 + 50,000 × 12)

= (7,20,000 + 10,80,000) : (7,20,000 + 6,00,000)

= 18,00,000 : 13,20,000

= 15 : 11

So, the profit share of Nitin is = 74,100 × 15/26

= Rs. 42,750

28.Answer: D

Investment of Homer = 3x

Investment of Shiv = 100/75 * 3x = 4x

Investment of Bern = 125/100 * 4x = 5x

Let Profit share of Homer = 30y

Profit share of Bern = 2/1 * 30y = 60y

Profit share of Shiv = 30y * (320/300) = 32y

Required ratio = 30y/3x:32y/4x:60y/5x

= 10:8:12

= 5:4:6

29.Answer: A

Saranya’s investment = Rs.x

8700 * 12/5x = 4/3

=> x = Rs.15660

30.Answer: B

(a + 200 + a + 200 + 150)/(a + 50 + a + 50 + 50) = 4/3

=> 2a = 1050

=> a = 525

31.Answer: D

Hari’s capital = Rs.x

(9000 * 12)/(8 * x) = ¾

=> x = Rs.18000

32.Answer: D

Required ratio = (7000 * 12): (9400 * 7): (8600 * 7)

= 60: 47: 43

Profit of R = 15000 * 43/150 = Rs.4300

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33.Answer: C

(12000 * 36): (6000 * (36 – n)) = 5: 2

=> 144 = 180 -5n

=> n = 7.2 months

34.Answer: C

Expenses of A = 3/1 * 10000 = Rs.30000

Expenses of B = 4/1 * 10000 = Rs.40000

5x – 30000/6x – 40000 = 1/1

6x – 40000 = 5x – 30000

x = 10000

Income of A = 5 * 10000 = Rs.50000

Savings of A = 50000 – 30000 =Rs.20000

35.Answer: E

Initial investment of A = Rs.15000

Investment of A in the 2^{nd} year = 120% of 15000 = Rs.18000

Investment of A in the 3^{rd} year =125% of 18000 = Rs.22500

Investment of A in the 4^{th} year = 130% of 22500 = Rs.29250

Therefore total investment of A in the given time period of 4 years is

= 15000+18000+22500+29250

= Rs.84750

Similarly, total investment of B

= 24000+28000+35000+49000

= 136000

Required ratio

84750: 136000

339: 544

36.Answer: C

Investment ratio of Ravi and Raj = 4/6: 3/8 = 16: 9

Amount invested by Ravi = 9000 * 16/25 = Rs.5760

37.Answer: C

Anu: Kavya = 3: 4 = 6: 8

Anu: Rana = 2: 3 = 6: 9

Anu: Kavya: Rana = 6: 8: 9

Kavya's share = 8/23 * 115000 = Rs.40000

38.Answer: C

Anu: Kavya = 3: 4 = 6: 8

Anu: Rana = 2: 3 = 6: 9

Anu: Kavya: Rana = 6: 8: 9

Kavya's share = 8/23 * 115000 = Rs.40000

39.Answer: C

Investment ratio = P: Q = (20000 * 24): (30000 * 20) = 4: 5

P's share in profit = 36000 * 4/9 = Rs.16000

40.Answer: B

Ratio of investment of X, Y and Z is = 35 : 7a : 10a

So, the profit sharing ratio of X, Y and Z is = 35 × 8 : 7a × 6 : 10a × 12

= 140 : 21a : 60a

Then, according to the question,

= 140/(140 + 21a + 60a) = 700/3130

= 140/(140 + 81a) = 70/313

= 43,820 = 9800 + 5670a

= 5670a = 43,820 – 9800

= 5670a = 34,020

= a = 6

41.Answer: A

Let Amit, Rishi and Vinod invest X, Y and Z months respectively.

Let profit of Rishi be P.

So, Profit of Amit = P + 15000

Then, 60000 = 15000 + 15000 + P + P

P = 15000

So, profit of Amit = 15000 + 15000 = 30000

Profit of Rishi = 15000

Now, profit sharing ratio of Amit, Rishi and Vinod

30000 : 15000 : 15000

2:1:1

So, 15000X : 10000Y : 5000Z = 2:1:1

= 3X/2Y=2

X/Y=4/3

2Y/Z=1

2Y = Z

So, required ratio= X:Y:Z= 4:3:6

42.Answer: E

Profit ratio of A, B and C = (5000 * 6 + (5000 + x) * 6):(7000 * 6 + (7000 – x – 1000) * 6):(8000 * 12)

= (60000 + 6x):(78000 – 6x):96000

Share of B = (78000 – 6x)/(60000 + 6x + 78000 – 6x + 96000) * 19500

= (78000 – 6x)/12

We cannot find the answer

43.Answer: D

Let x be the amount invested by Samuel.

(24000/x) = (3/4)

=> x = Rs.32000

44.Answer: A

Investment ratio of A to B = 100: 160 = 5: 8

Investment ratio of B to C = 100: 33 1/3 = 3: 1

Investment ratio of A, B and C = 15: 24: 8

Time period is same, Investment ratio = Profit ratio

A's share = 75200 * 15/47 = 24000 = Z * 12

Z = 2000

B' investment = 2000 * 160/100 = 3200

45.Answer: D

Profit ratio of Mithun, Nirmal and Divya = 8000 * 12:12000 * 12:14000 * 6

= 96:144:84

= 8:12:7

Profit share of Mithun = 8/27 * 20250

= Rs.6000

46.Answer: B

Profit ratio of A, B and C = (2x * 1 + (2x + 4800) * 1):(3x * 1 + (3x + 3900)):(6x * 1 + (6x + 5600) * 1)

= 4x + 4800:6x + 3900:12x + 5600

Profit share of B = ((6x + 3900)/(22x + 14300)) * 33000

= 3(2x + 1300)/11(2x + 1300) * 33000

= 9000

47.Answer: B

P: Q = (2000 * 4 + 1.1 * 2000 * 8): (3800 * 4 + 1.5 * 3800 * 8)

= 8: 19

Profit share of P = 8/27 * 5400 = Rs.1600

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48.Answer: A

Profit ratio of A, B and C = 2 * 8:3 * 10:6 * 4

= 16:30:24

= 8:15:12

Total profit = 35/4 * 4000 = 35000

49.Answer: A

Profit ratio of A, B and C = (13000 * 4 + 16000 * 8):(16000 * 12):(15000 * 8 + 12000 * 4)

= 180:192:168

= 15:16:14

Profit share of C = 14/45 * 36000

= Rs.11200

50.Answer: D

Profit ratio of A, B and C = 18000 * 12:16000 * 8:20000 * 8

= 27:16:20

B's profit share = 16/63 * 31500

= Rs.8000