15 CHAPTER

PARTNERSHIP

EXERCISE

- A starts some business with ₹50,000. After 3 months B joins him with ₹70,000. At the end of the year, in what ratio should they share the profit ?
 (a) 1:3
 (b) 3:2
 - (c) 1:5 (d) None of these
- 2. A, B and C started a business with their investments in the ratio 1:2:4. After 6 month A invested the half amount more as before and B invested same the amount as before while C

withdrew $\frac{1}{4}$ th of the his investments. Find the ratio of their profits at the end of the year.

- (a) 5:12:13 (b) 5:11:14
- (c) 5:12:14 (d) None of these
- 3. A working partner gets 20% as his commission of the profit after his commission is paid. If the working partner's commission is ₹ 8000, Then what is the total profit in the business?

 (a) ₹ 47,000 (b) ₹ 45,000
 - (c) ₹ 48,000 (d) None of these
- 4. Rakesh Yadav Reader publication makes a profit of 9,00,000, 20% of which is paid as taxes. If the rest is divided among the partners P' Q and R in the ratio

of $1:1\frac{1}{2}:2$, then the shares of

- P, Q and R are respectively:
- (a) ₹2,40,000; ₹3,20,000; ₹1,60,000
- (b) ₹3,20,000; ₹2,40,000; ₹1,60,000
- (c) ₹1,60,000; ₹3,20,000; ₹2,40,000
- (d) ₹1,60,000; ₹2,40,000; ₹3,20,000

- 5. We have to divide a sum of ₹ 13,950 among three persons A, B and C. B must get the double of A's share and C must get ₹ 50 less than the double of B's share. The share of A will be:

 (a) ₹ 1950 (b) ₹ 1981.25
 - (a) ₹ 1930 (b) ₹ 1981.23 (c) ₹ 2000 (d) ₹ 2007.75
- 6. A started business with ₹ 45,000 and B joined after ward with 30,000. If the profit at the end of a year was divided in the ratio 2:1 respectively, then B would have joined A for business after.
 - (a) 1 month (b) 2 month
- (c) 3 month (d) 4 month
 - X and Y are partners in a business. They invest in the ratio 5: 6, at the end of 8 months X withdraws his capital. If they receive profits in the ratio of 5: 9, Find how long Y's investment was used?

 (a) 12 months (b) 10 months

 (c) 15 months (d) 14 months

 Four milkmen rented a pasture. M put to graze 16 cows for
- 8. Four milkmen rented a pasture. M put to graze 16 cows for 3 months and N 20 cows for 4 months, O 18 cows for 6 months and P 42 cows for 2 months. If M's share of rent be Rs. 2400, the rent paid by O is.
 - (a) ₹ 3200 (b) ₹ 4200 (c) ₹ 4000 (d) ₹ 5400
- 9. A, B and C invested Rs. 47000 for a business. If A subscribes ₹ 7,000 more than B and B ₹ 5,000 more than C, then out of total profit of Rs. 4700, C receives.
 - (a) ₹ 1200 (b) ₹ 4500 (c) ₹ 1000 (d) None of these
- 10. ₹ 11250 are divided among A, B and C so that A may receive one half as much as B and C together receive and B receives one-fourth of what A and C

together receive. The share of A is more than that of B by.

- (a) ₹ 2500 (b) ₹ 1500
- (c) ₹ 1800 (d) ₹ 650
- 11. X starts a business with ₹ 25,000. After 4 months Y joins him with ₹ 20,000. What will be the ratio of their profit at the end of the year.
 - (a) 4:8 (b) 5:10 (c) 15:8 (d) 9:18
- 12. A starts a business with 21,000/- and later B joins him with 36,000/- After how many months did B join if the profit is distributed in equal ratio?
 - (a) 5 (b) 7
 - (c) 6 (d) 9
- 13. A and B started a business investing amount of ₹1,85,000 and ₹2,25,000 respectively. if B's share in the profit earned by them is ₹9,000 then what is the total profit earned by them together?
 - (a) ₹ 17,400 (b) ₹ 16,400 (c) ₹ 16,800 (d) ₹ 17,800
- 14. A and B stared a boutique investing amounts of ₹ 35,000 and ₹ 56,000 respectively. If A's share in the profit earned by them need is ₹ 45,000, then what is the total profit earned?
 (a) ₹ 81,000 (b) ₹ 1,27,000

 $(d) \notin 1,17,000$

15. A invested an amount of ₹ 25,000 and started a business. B joined him after one year with an amount of ₹ 30,000. After two years from starting the business, they earned the profit of ₹ 46,000. What will be B's share in the profit?

(c) ₹ 72,000

- (a) ₹ 14,000 (b) ₹ 12,000
- (c) ₹ 17,250 (d) ₹ 20,000

- 16. Mr. A opened a workshop investing 40,000. He invested additional amount of 10,000 every year. After two years his Student B joined him with an amount of 85,000. Thereafter B did not invest any additional amount. On completion of four year form the opening of workshop they earned an profit of 1,95,000. What will be A's share in the earning.
 - (a) 85,000
- (b) 1,10,000
- (c) 1,35,000
- (d) 95,000
- 17. X and Y enter into a partnership with their capitals in the ratio 7:9. At the end of 8th month, X withdraws his capital. If they receive the profits in the ratio 8:9, Find how long Y's capital was used.
 - (a) 4 months (b) 6 months
 - (c) 7 months (d) 8 months
- 18. X and Y enter into a partnership with capitals in the ratio 5:6 and at the end of 8 months, X withdraws. If they receive profit in the ratio of 5:9. Find how long Y's capital was used.
 - (a) 8 months (b) 9 months
 - (c) 11 months (d) 12 months
- 19. Two partners invest ₹ 1,25,000 and ₹ 85,000 respectively in a business and agree that 60% of the profit should be divided equally between them and the remaining profit is to be divided into ratio of their capitals. If one partner gets ₹ 300 more than the other. Find the total profit made in the business.
 - (a) ₹ 3739.50 (b) ₹ 3937.50
 - (c) ₹ 3749.50 (d) ₹ 3947.50
- 20. Two brother invested ₹ 50,000 and ₹ 70,000 respectively in a business and agreed that 70% of the profits should be divided equally between them and the remaining profit in the ratio of investment. If one Brothersgets ₹ 90 more than the other.Find the total profit made in the business.
 - (a) ₹ 1200
- (b) ₹ 1400
 - (c) ₹ 1600
- (d) ₹ 1800

- 21. The investments made by X and Y are in the ratio 3: 2. If 5% of total profit is donated and X gets ₹ 8,550 as his share of profit then what is the amount of total profit.
 - (a) ₹ 14000 (b) ₹ 15,000
 - (c) ₹ 11,050 (d) ₹ 12,020
- 22. A, B and C enter into a partnership with capitals in the ratio 5:6:8. At the end of the business term, they received the profit in the ratio 5:3:12. Find the ratio of time for which they contributed their capitals?
 - (a) 2:1:3 (b) 1:2:3
 - (c) 2:3:1 (d) 3:2:1
- 23. X and Y entered into a partnership, investing ₹ 16,000 and ₹ 12,000 respectively. After 3 months X withdrew ₹ 5000, while Y invested 5000 more. After 3 months more Z joins the business with a capital of ₹ 21,000. After a year they obtained a profit of ₹ 26,400. By what amount does the share of Y exceed the share of Z.
 - (a) ₹ 3600 (b) ₹ 3800 (c) ₹ 4600 (d) ₹ 4800
- 24. X, Y and Z are partner in a business. If X's capital is twice of Y's capital and Y's capital is three times to that of Z's capital then find the ratio of their
 - investments. (a) 6:3:1 (b) 3:8:1 (d) 3:1:5 (c) 4:9:3
- 25. X and Z invest capital in the ratio of 2:1 while X and Y invest capital in the ratio of 3:2. If their annual profit is ₹ 1,57,300 then what is Y share? (a) ₹ 48,400 (b) ₹ 58,809 (c) ₹ 48,810 (d) ₹ 47,782
- 26. X, Y and Z enter into partner
 - ship. X invests $\frac{1}{4}$ part of total capital for one-fourth of the time. Y contributes one fifth of the capital for half of the time. Z contributes the remaining capital for the whole time. How should they divided a profit of ₹ 1140?
 - (a) ₹ 100, ₹ 160, ₹ 880
 - (b) ₹ 110, ₹ 140, ₹ 860
 - (c) ₹ 120, ₹ 150, ₹ 840
 - (d) ₹ 140, ₹ 170, ₹ 830

- 27. In a partnership X invests $\frac{1}{6}$ th of the capital for $\frac{1}{6}$ th of the time, Y invests $\frac{1}{3}$ rd capital for
 - $\frac{1}{3}$ rd time and Z invests the
 - remaining capital for the whole time. If at the end of the year the profit earned is ₹ 23,000 then what will be Y share?
 - (a) ₹ 5500
- (b) ₹ 5000
- (c) ₹ 6000
 - (d) ₹ 4000
- 28. A and B are two partners in a firm sharing the profit in the ratio 4:5. If the firm earns a profit of ₹14,130, then profit to be received by B
 - (a) ₹6,280
- (b) ₹7,850
- (c) 1,570
- (d) ₹3,140
- 29. X and Y take a grass ground on lease for ₹300 for grazing their animals. If X grazes 10 animals for 5 weeks and Y grazes 15 animals for 7 weeks. The ratio in which they should divide the rent is:
 - (b) 10:21 (a) 1:2 (d) 2: 1 (c) 11:20
- 30. A and B started a business investing amounts in the ratio of 2:3. If A has invested an additional amount of ₹10,000, their ratio of investment would have been 3: 2, The amount invested by A was:
 - (a) ₹8,000
- (b) ₹12,000
- (c) ₹18,000
- (d) ₹20,000
- 31. The ratio of investments of two partners X and Y is 11:12 and the ratio of their profit is 2:3. If X invested the money for 8 months, then the time for which Y invested the money is: (a) 8 months (b) 9 months
- 32. A and B enter into partnership. At the end of 9 months B withdraws but A's capitals is used for one month more. If they receive

(c) 10 months (d) 11 months

- profit in the ratio of 5:6, then the ratio of their capital is:
 - (a) 3:4
- (b) 4:3
- (c) 5:6
- (d) 6:5

- 33. A,B and C hired a car for ₹4,160. A used it for 7 hours. B for 8 hours and C used it for 11 hours. The rent shared by A will be:
 - (a) ₹960
- (b) ₹1120
- (c) 1,260
- (d) ₹1,760
- 34. A, B and C are three partners in a business. The profit share

of A is $\frac{3}{16}$ of the total profit and

B's share is $\frac{1}{4}$ of the total profit.

If C receives ₹243, then the amount received by B will be:

- (a) ₹90
- (b) ₹96
- (c) ₹108
- (d) ₹120
- 35. A is a Active partner and B is a Inactive partner in busines. A puts in ₹5,000 and B puts in ₹ 6,000. A received 15% of the profit for managing the business and the rest is divided in proportion to their capitals. The amount received by A out of the profit of ₹880 in all is:
 - (a) ₹132
- (b) ₹340
- (c) ₹472
- (d) ₹492
- 36. A starts business with a capital of ₹14,000. five monts later B joins and further two months later C joins them. If the profit sharing ratio in the end of year is 4:3:2, then the money invested by C was:
 - (a) ₹18,000
- (b) ₹16,800
- (c) ₹18,600
- (d) ₹10,800
- 37. A, B and C become partners in a

business. A contributes $\frac{1}{3}^{m}$ of

the capital for $\frac{1}{4}^{th}$ of the time. B

contributes $\frac{1}{5}th$ of the capital

for $\frac{1}{6}th$ of the time and C the

rest of the capital for the whole time. If the profit is ₹1,820, then the A's share in profit is:

- (a) ₹130
- (b) ₹260
- (c) ₹292
- (d) ₹304

- 38. In a business A and B gained some amount in a certain ratio. B and C received the profit in the ratio as that of A and B. If A received ₹6,400 and C received ₹ 10,000. Find the share of B
 - (a) ₹2,000
- (b) ₹4,000
- (c) ₹8,000
- (d) ₹10,000
- 39. A and B share profits and losses in a firm in the ratio of 3:2. and C entered in this firm as a new partner; his profit sharing

ratio is $\frac{1}{4}$. If C has taken his

share of profit from A and B in equal ratio, then the new profit shareing ratio will be:

- (a) 19:11:1 (b) 19:11:10 (c) 10:11:9 (d) 10:11:19
- 40. A, B and C share the profit in the ratio of 2:3:7. If the average gain is ₹8,000, then B's share is:
 - (a) ₹2,000
- (b) ₹1,000
- (d) ₹6000 (c) ₹1,500
- 41. A, B and C share profit in the

ratio of $\frac{1}{4}:\frac{1}{6}:\frac{7}{12}$. If C retires,

they share the profit of C in the ratio of 4: 5 repectively. The new profit sharing ratio of A and B will be:

- (a) 55:53
- (b) 53:55
- (c) 5:3
- (d) 3:5
- A and B enter into partnership investing ₹ 48,000 and ₹ 60,000 respectively. After 3 months, A withdraws ₹ 8,000 while B invests ₹ 6,000 after 6 months of starting of business. Out of the total amount of profit, if A gets ₹12,000 as his share at the end of the year total proift is:
 - (a) ₹24,000
- (b) ₹30,000
- (c) ₹36,000
- (d) ₹37,000
- 43. M, P and Q together started a business. M invested ₹ 6,500 for 6 months, P invested ₹ 8,400 for 5 months and Q invested ₹ 10,000 for 3 months. M is working member for which he gets 5% of total profit extra. If the total gain is ₹ 7,400, then Q's share is:
 - (a) ₹1900
 - (b) ₹2,100
 - (c) ₹3,200
 - (d) Data are incomplete

- 44. A ,B and C jointly start a businees A puts in ₹15,000 for 8 months B puts in ₹12,000 for 9 months and C puts in ₹8,000, for the whole year. In the end of the year there is a profit of ₹10,800. The difference between A's share and C share in the profit will be:
 - (a) ₹800
- (b) ₹600
- (c) ₹1200
- (d) ₹1,800
- 45. A started a business by investing ₹50,000. After 6 months B joined her by investing ₹75,000 . After its 6 months C joined with ₹1,25,000. What is the ratio of profit shared after 2 years among A, B and C?
 - (a) 4:5:6 (b) 8:9:10
 - (c) 8:9:12 (d) 4:5:8
- 46. A starts a business with ₹45,000. After 6 months B enters in his business with ₹80,000. After one year C invests ₹1,20,000. In what ratio the profit will be divided among A, B and C after two years?
 - (a) 9:16:24 (b) 3:4:4
 - (c) 3:4:8 (d) 3:3:8
- 47. Three partner A, B and C started a business by investing Rs. 48000 each after 6 months, A left the business after 10 months B left the business and after 12 months C left the business. If total earned profit is Rs. 5250, then find the share of A, B and C?
 - (a) ₹1125,₹1825,₹2250
 - (b) ₹ 1125,₹1800,₹2200
 - (c) ₹1125,₹1875,₹2250
 - (d) ₹1175,₹1256,₹2350
- Three partners started a business by investing Rs.60,000, Rs.80,000 and Rs. 1,20,000 respectively. First partner left the business after 4 months, secondafter 9 months and third rem ained in the business for the whole year. At the end of year the total profit earned is Rs. 1,60,480, then find theirshares of profit.
 - (a) ₹ 16840, ₹44188, ₹ 92686
 - (b) ₹ 16048, ₹48144, ₹ 96288
 - (c) ₹ 16042, ₹14842, ₹ 9862
 - (d) ₹ 15000, ₹13423, ₹ 7562

- 49. A,B and C have invested a sum of Rs. 125000 in a business. B invested R. 15000 more than A and C invested RS. 20,000 more than B. If the total earned profit is Rs. 37450 at the end of year, then find their share of profit.
 - (a) ₹7490, ₹11984, ₹17976
 - (b) ₹8480, ₹7550, ₹8560
 - (c) ₹7940, ₹7054, ₹17500
 - (d) ₹5100, ₹6943, ₹7140
- 50. A started a business by investing Rs. 42000. After few months B joined by investing Rs. 49,000. If at the end of year A got Rs. 9000 and B got Rs.7000 as a share of their profit. Then after how many months B joined the business.
 - (b) 4 months (a) 1 month
- (c) 2 months (d) 3 months 51. A started a business by
- investing some money and B invested Rs. 5000 more than that of A. A remained in business for 5 months and B remained in business 1 month more than A. out of the total profit of Rs. 26000, B got Rs. 6000 more than A. Find the capitals invested A and B.
 - (a) ₹29,000, ₹18,000
 - (b) ₹25,000, ₹30,000
 - (c) ₹15,000, ₹10,000
 - (d) ₹15,000, ₹20,000
- 52. A, B and C invested money in the ratio of $\frac{1}{2}:\frac{1}{3}:\frac{1}{5}$ in a business. After 4 months A doubled his investement and after 6 months B halves his investement. If the total profit at the end of year be Rs. 34650 then find the share of each in profit.
 - (a) ₹20,000,₹25,000,₹18,000
 - (b) ₹15,500,₹27,200,₹20,450
 - (c) ₹22,500,₹6750,₹5400
 - (d) ₹10350,21,540,₹12,050
- 53. A and B started a business by investing Rs. 36000 and Rs. 45000 respectively. After 4

months B withdraws $\frac{4}{9}$ of his

investment. its 5 months After

- she again invested $\frac{11}{9}$ of its original investment. If the total earned profit at the end of the year, is Rs. 117240, then who will get more money as a share of profit and how much?
- (a) A, ₹15,500 (b) B, ₹12,450 (c) A, ₹14,245 (d) B, ₹13,560
- 54. A, B and C started a business by investing Rs. 24,000, Rs. 32000 and Rs.18000 respect ively. A and B are active partners and get 15% and 12% of total profit and remaining profit is to be distributed among them in the ratio of their investment. If C got total Rs.65700 as a profit, what was the total amount of profit? (a) ₹4,70,000 (b) ₹3,70,000
- 55. A, B and C hired a pasture. A grazed 12 cows 2 hours every day for 4 months, B grazed 16 cows, 4 hours every day for 6 months and C grazed 6 cows 9 hours everyday for 2 months. If B has paid Rs. 1152 as a share of fare. Find the amount of total Rent.

(d) ₹1,57,000

(c) ₹3,45,000

- (b) ₹1214 (a) ₹1413 (c) ₹1764 (d) ₹1102
- 56. A started a business with the capital of Rs. 500. After 2 months B joined A with Rs. 400. 6 months after the business started C joined with Rs. 800. If the total profit earned at the end of the year is Rs. 444 find the share of their profit.
 - (a) ₹180,₹120,₹144
 - (b) ₹150,₹130,₹123
 - (c) ₹160,₹141,₹125
 - (d) ₹141,₹110,₹140
- 57. A and B started a business in partnership by investing Rs.10,000 and Rs. 4000 respectively. condition of partnership is that B got Rs.100 per month for management of the business. After paying 5% interest on the capital, annual profit has distributed in the ratio of their investment. Find the share of their profit, if the annual profit is Rs. 4000.

- (a) ₹ 3000 each
- (b) ₹ 2500 each
- (c) ₹ 1500 each
- (d) ₹ 2000 each
- 58. A, B and C are partners in a business partnership. A invested Rs. 4000 for whole year. B invested Rs. 6000 initialy but increased this investment upto Rs. 8000 at the end of 4 months, while C invested Rs, 8000 intially, but withdraw Rs. 2000 at the end of 9 months, At the end of year total earned profit is Rs. 16950, find their share of profit.
 - (a) ₹3600,₹6600,₹6750
 - (b) ₹2000,₹3050,₹5400
 - (c) ₹2450,₹2460,₹1456
 - (d) None of these
- 59. Three partners A, B and C

invested in the ratio of $\frac{5}{4}:\frac{4}{5}:\frac{6}{5}$ in a business. After 3 months A increased his capital by 50% If the total profit of Rs. 35,700 earned at the end of year, find what was the A's share of profit?

- (a) ₹12,000 (b)₹ 16,500(d) ₹ 15,600 (c) ₹ 13,000
- 60. Out of total capital required to start a business A invested

30%, B invested $\frac{2}{5}$ th and C the remaining invested capital. At the end of one year sum of Rs. 4000 is earned as a profit which is 20% of the capitial given by B, then find how much C invested in the business?

- (a) ₹25000 (b) ₹10000 (c) ₹15000 (d) ₹12450
- 61. A and B started a business in partnership by investing in the ratio of 7:9. After 3 months A

withdraw $\frac{2}{3}$ of its investment and after 4 months from the

begining B withdraw $33\frac{1}{3}\%$ of its investment. If a total earned profit is Rs. 10201 at the end of 9 months, find the share of each in profit.

- (a) ₹3535, ₹6666
- (b) ₹3055, ₹5555
- (c) ₹4503, ₹1345
- (d) ₹3545, ₹3333

- 62. Three partners invested Rs. 42000, Rs. 48000 and Rs. 32000 respectively. part- nership condition is that, each will the get interest on his capital at the rate of 7% per annum and the remaining profit will be divided in the ratio of their capitals. If at the end of the year the total profit is Rs. 32940, then find the share of A in profit.
 - (a) ₹12960
 - (b) ₹11340
 - (c) ₹8640
 - (d) None of these
- 63. Rs. 490 is divided among A, B and C such that A's share is half that of B's and thrice that of C's. What is C's share?
 - (a) Rs. 49
- (b) Rs. 147
- (c) Rs. 294
- (d) Rs. 245

- 64. A, B and C enter into a partnership, investing Rs. 6000. A invests Rs. 1000 and B and C in invests in the ratio of 2:3. Find the profit of C, when the annual profit is Rs. 2400
 - (a) Rs. 600
 - (b) Rs. 1200
 - (c) Rs. 1800
 - (d) Rs. 1950

(SSC CGL Pre Exam 2016)

65. 3 brothers divided 1620 among them in such a way that the

share of second is equal to $\frac{5}{13}$ of share of other two, combined. What is the share of the second one?

- (a)₹ 1170
- (b) ₹ 450
- (c) ₹ 540
- (d) ₹ 500

(SSC CGL Pre Exam 2016)

- 66. A and B invest Rs. 3000 and Rs. 2400 respectively in a business. If after one year there is a loss Rs. 720, how much loss will B bear? (loss or Profit is in proportion to their investments)
 - (a) ₹ 72
 - (b) ₹ 320
 - (c) ₹ 400
 - (d) ₹ 360

(SSC CGL Pre Exam 2016)

- 67. A, B and C together start a business. Three times the investment of A equal four times the investment of B and the Capital of B is twice that of C. The ratio of share of each in the profit.
 - (a) 8 : 3 : 6 (b) 3 : 8 : 6
 - (c) 3:6:8 (d) 8:6:3

(SSC CGL Mains Exam 2016)



1. (d) 9. (c)	17. (c) 25. (a)	33. (b) 41. (a)	49. (a) 57. (d) 65. (b)
2. (c) 10. (b)	18. (d) 26. (a)	34. (c) 42. (b)	50. (b) 58. (a) 66. (b)
3. (c) 11. (c)	19. (b) 27. (d)	35. (c) 43. (a)	51. (d) 59. (b) 67. (d)
4. (d) 12. (a)	20. (d) 28. (b)	36. (b) 44. (a)	52. (c) 60. (c)
5. (c) 13. (b)	21. (b) 29. (b)	37. (b) 45. (b)	53. (d) 61. (a)
6. (c) 14. (d)	22. (a) 30. (a)	38. (c) 46. (b)	54. (b) 62. (b)
7. (a) 15. (c)	23. (a) 31. (d)	39. (b) 47. (c)	55. (c) 63. (a)
8. (d) 16. (b)	24. (a) 32. (a)	40. (d) 48. (b)	56. (a) 64. (b)

EXPLANATION

Capital \rightarrow 50,000 70,000 Time → Profit → 60 63 20 21

Required Ratio of profits = 20: 21

(c) **Note:** We can assume values as per our need but the ratio of values should not be changed.

A : B : C

Initial capital $\rightarrow 2x : 4x : 8x$ Total capital invested by A $= (2x \times 6 + 3x \times 6) = 30x$ Total capital invested by B $= (4x \times 6 + 8x \times 6) = 72x$ Total capital invested by C $= (6 \times 8x + 6x \times 6)$ = (48x + 36x) = 84xNew ratio of capitals:

A: B: C
$$\frac{\text{Capital} \rightarrow 30x : 72x : 84x}{\text{Profit} \rightarrow 5 : 12 : 14}$$

Note: Profit would be divided in the ratio of their capitals. Required ratio of their profit = 5:12:14

(c) Let the total profit = ₹ k. According to the question, Remaining profit after paying 20% working Partner's commission = (k - 8000)

$$\therefore (k - 8000) \times \frac{20}{100} = 8000$$

k = 48000

∴ Total profit = ₹ 48000

P : Q : R (d) 4. Capital $\rightarrow 1 : \frac{3}{2} : 2$ Profit $\rightarrow 2:3:4$

Note: Profit would be divided in the ratio of their capitals. Profit = (2x + 3x + 4x) = 9x units According to the question,

$$9x = 9,00,000 \times \frac{80}{100}$$

- 9x = 7,20,000x = 80,000Profit of P = $2x = 2 \times 80,000$ = ₹ 1,60,000 Profit of Q = $3x = 3 \times 80,000$ = ₹ 2,40,000 Profit of R = $4x = 4 \times 80,000$ = ₹ 3, 20,000
- (c) Let the share of $A = \mathbb{Z} x$ According to the question, A: B: C Capital $\rightarrow x : 2x : (4x - 50)$

(x + 2x + 4x - 50) = 13,9507x - 50 = 13,950= 140007x= 2000x

Share of A = ₹ 2000

(c) Capital of A (i) ₹ 45,000 Capital of B (ii) ₹ 30,000 Ratio of $P_1 : P_2 = 2 : 1$ Now by using formula,

$$\frac{C_1 T_1}{C_2 T_2} = \frac{P_1}{P_2}$$

$$\frac{45000 \times 12}{30000 \times T_2} =$$

 $T_{2} = 9$ Then B would join business after (12 - 9) = 3 months

(a) Let Y's investment is used for T months \rightarrow Now by using formula.

$$\frac{5\times8}{6\times T_2} = \frac{5}{9}$$

T = 12 months

8. (d)

No. of Cows
$$\rightarrow$$
 16 20 18 42
Time \rightarrow 3 \leftarrow 4 6 2 \leftarrow

Ratio of Rent → 48 : 80 : 108 : 84

12 units = ₹ 2400

1 unit =
$$\frac{2400}{12}$$

27 units = ₹
$$\frac{2400}{12}$$
×27 = ₹ **5400**

(c) Let C subscribes the business = ξx

> A В : C Capital \rightarrow (x + 12000): (x+ 5000). x

Note: Profit would be divide in the ratio of their capitals.

> According to the question, (x + 12000) + (x + 5000) + x

3x + 17000 = 47000

3x = 30000

x = 10,000

= 47000

: B : C

Capital→22,000 : 15000 :10000

Profit \rightarrow 22 : 15 : 10 (22 + 15 + 10) units = 4700

1 unit =
$$\frac{4700}{47}$$
 = 100

Share of C = 10 units = 10×100 **=** ₹ 1000

10. (b) A :

 2_{*5}(I)

A+C В

 4_{x_3}(II)

Note: The total sum of A, B and C will be same.

so equate the sum of both the equations.

After that new ratio,

B+C

10....(III)

A+C В

12....(IV) 3

From equation (iii) and (iv)

В C A 3 5 7

According to the question,

(5 + 3 + 7) units = ₹ 11250

15 units = ₹ 11250 1 unit = ₹ 750

Difference in shares of A and B

:. Hence Required ratio = 15:8

12. (a) Capital of A = ₹ 21,000Capital of B = ₹ 36,000By using formula,

$$\frac{C_1 \times T_1}{C_2 \times T_2} = \frac{P_1}{P_2}$$

$$\frac{21000 \times 12}{36000 \times T_2} = \frac{1}{1}$$

$$T_2 = 7$$
 months

 \therefore so B joined business after (12 - 7 = 5) months.

13. (b) A B
Capital
$$\rightarrow$$
 1,85,0000 : 2,25,000

Total profit = (7400 + 9000)

= ₹ **16400**

14. (d) A B

Capital
$$\rightarrow$$
 35,000 : 56,000

Profit \rightarrow 5 : 8

Profit
$$\rightarrow$$
 5 : 8
 $\downarrow \times 9000 \quad \downarrow \times 9000$
45000 72,000

Total profit = (45000 + 72,000) = ₹ 1, 17, 000

15. (c)

Capital→25,000 : 30,000

According to the question, (5 +3) units = ₹46,000 8 units = ₹46,000

1 unit =
$$\frac{46,000}{8}$$

3 units =₹
$$\frac{46,000}{8} \times 3 = ₹$$
 17,250

Hence share of B = ₹ 17,250

16. (b) Total investment of A in 4 years

- + 70,000
- = ₹ 22,00,00

Total investment of B in 2 years

$$= 85,000 \times 2 = 170,000$$

Capital \rightarrow 22,0000 : 170,000

Profit \rightarrow 22 : 17 According to the question, (22 + 17) units = ₹ 1,95,000

39 units = ₹
$$1,95,000$$

1 unit =
$$\frac{1,95,000}{39}$$

22 units = ₹
$$\frac{1,95,000}{39} \times 22$$

= ₹ 1,10,000

 (c) Let the Y's capital was used for T months
 According to the question,

$$\frac{7 \times 8}{9 \times T} = \frac{8}{9}$$

T = 7 months

Hence capital of Y was used for 7 months.

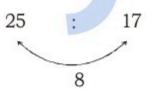
(d) Let the capitals of Y was used for T months

According to the question.

$$\frac{5\times8}{6\times T} = \frac{5}{9} \Rightarrow T = 12$$
 months

Hence capital of Y was used for = 12 months.

19. (b) 1st partner 2nd partner



According to the question,

Note: 60 % of profit should be divided equaly between them 8 units = ₹ 300

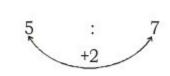
1 unit = ₹
$$\frac{300}{8}$$

42 units = ₹
$$\frac{300}{8} \times 42$$

∴ 40% of profit = ₹
$$\frac{300}{8}$$
 × 42

100% profit = ₹
$$\frac{300 \times 100}{8 \times 40} \times 42$$
 = ₹ **3937.50**

20. (d) 1st Brother : 2nd Brother



so
$$5 + 7 = 12$$

so 12 unit =
$$45 \times 12$$

$$30\% = 45 \times 12$$

$$100\% = \frac{45 \times 12}{30} \times 100 = ₹1800$$

(b) Let the total profit = 100 units
 Remaining profit after donation

$$= 100 - \frac{100 \times 5}{100} = 95 \text{ units}$$

$$\therefore$$
 share of $X = \frac{95}{(3+2)} \times 3$

= 57 units

According to the question, 57 units = ₹ 8550

1 unit =
$$\frac{8550}{57}$$

100 units =
$$\frac{8550}{57} \times 100$$

Alternate :

1 unit = ₹
$$\frac{8550}{3}$$
 = ₹ 2850

Note: 5 % of total profit is donated ∴ 95 % of total profit = ₹ 14250

1 % of total profit = ₹
$$\frac{14250}{95}$$

100 % of total profit

$$=$$
 ₹ $\frac{14250}{95} \times 100 =$ ₹ **15,000**

Capital
$$\rightarrow 5$$
 : 6 : 8
Time $\rightarrow 1$: $\frac{1}{2}$: $\frac{3}{2}$ $\rightarrow 7$

Note : (i) We know

Profit = Time × capital invested (ii) In such type of questions we should assume value of time as they can satisfy the ratio of profit.

.. Required ratio of Time

$$= 1 : \frac{1}{2} : \frac{3}{2}$$

Alternate

Profit = Time × Capital invested

 $Time = \frac{Profit}{Capital invested}$

Required ratio of time

$$=\frac{5}{5}:\frac{3}{6}:\frac{12}{8}$$

$$= 1 : \frac{1}{2} : \frac{3}{2}$$

= 2 : 1 : 3

- 23. (a) Total capital invested by X in a year
 - $= 16,000 \times 3 + 11000 \times 9$
 - = ₹ 147,000

Total capital invested by Y in a year

- $= 12000 \times 3 + 17000 \times 9$
- = ₹189,000

Money invested by Z = 21,000 × 6 = ₹ 126,000

X : Y : Z

Capital → 147: 189: 126

7:9:6

According to the question, (7 + 9 + 6) units = ₹ 26,400

1 unit = ₹
$$\frac{26,400}{22}$$

= ₹ 1,200

Reqiured difference = (9 - 6) × 1200 = ₹ **3600**

24. (a) According to the question,

∴ Required ratio of capital = 6:3:1

25. (a)

0 . 1

∠_{×3} · 1,

X : Y

 3_{x_2} : 2_{x_2}

Note: X will be same in both cases, hence new required ratio

X : Y : Z

6 : 4 : 3

According to the question, (6 + 4 + 3) units = ₹ 1,57,300 13 units = ₹ 1,57,300

1 unit = ₹ 1,21,00

4 units = ₹ 1,2100 × 4

= ₹ 48,400

∴ Share of Y = ₹ 48,400

26. (a) Let the total time = 8 years Let the total capital = 20 units

Capital
$$\rightarrow 5$$
 : 4 : 11
 \times : 8 \leftarrow Profit \rightarrow 10 : 16 : 88

5 : 8 : 44

According to the question, (5 + 8 + 44) units = ₹ 114057 units = ₹ 1140

1 unit = ₹
$$\frac{1140}{57}$$
 = ₹ **20**

Profit of X = $20 \times 5 = ₹ 100$ Profit of Y = $20 \times 8 = ₹ 160$

Profit of Z = 20 × 44 = ₹ 880

27. (d) Let the Capital = 18 units Let the time = 6 years

Capital
$$\rightarrow 3$$
 : 6 : 9
Time $\rightarrow 1$: 2 : 6 $\rightarrow \times$: 6 $\rightarrow \times$: 6 $\rightarrow \times$: 7 : 6 $\rightarrow \times$: 12 : 54

→ 3 : 12 : 54

According to the question, (1 + 4 + 18) units = ₹ 23000

23 units = ₹ 23000

1 unit = ₹ 1000

4 units = ₹ 1000 × 4 = ₹ 4000

Share of Y is ₹ 4,000

According to the questionm, (4+5) units = ₹14,130

1 unit =
$$₹\frac{14,130}{9} = ₹1570$$

5 units = 5 × 1570 = ₹7850

∴ Hence share of B = ₹7850

29. (b) Total Rent = ₹300

No. of Animals
$$\longrightarrow$$
 10 \times 15 \times X

Time (in weeks) \longrightarrow 5 \times 7 \times Ratio of Rent \longrightarrow 50 : 105 10 : 21

30. (a) Initial Ratio of investments by A and B = 2 : 3

Let their respective investments are 2x and 3x

According to question.

If A added ₹10,000 to his investment

Then New Ratio = 3:2

$$\frac{2x+10,000}{3x} = \frac{3}{2}$$
$$4x + 20,000 = 9x$$
$$5x = 20000$$

⇒original investment by A

x = 4000

= 2 × 4000 = ₹8000

Alternative

Note: we know A has an addlitional amount. So amount of B would be same

After that new Ratio

According to the question

Initial capital of A

= 2000 × 4 = ₹ 8000

31. (d) Let capital of X be ₹11x and Y's capital be ₹12x

and let time for which Y invested capital is T_2 months by using formulas,

$$\frac{C_1 \times T_1}{C_2 \times T_2} = \frac{P_1}{P_2}$$

$$\frac{11x \times 8}{12x \times T_2} = \frac{2}{3}$$

$$T_2 = 11$$
 months

Hence the time for which Y invested his capital is 11 months

32. (a) Let A's Capital = ₹x

Let B's Capital = ₹y

Now Acc. to question

$$\begin{array}{ccc}
 & A & B \\
 & \text{Capital} \longrightarrow x & y \\
 & \text{Time (in month)} \longrightarrow (9+1) = 10 & 9 \\
 & \text{Ratio of profit} \longrightarrow 5 & 6
\end{array}$$

we know

$$\frac{10 \times x}{9 \times y} = \frac{5}{6} \Rightarrow \frac{x}{y} = \frac{3}{4}$$

Hence the required ratio of capital of A and B is = 3:4

33. (b) Total cost of hiring a car = ₹4,160

According to question,

A B C

Time. of using car 7 8 11 in hours

Here the ratio of time will be the ratio of rent each person has to pay

 \Rightarrow ratio of rents 7: 8 : 11 to be paid

Rent shared by A =
$$\frac{4160 \times 7}{7+8+11}$$

= ₹ 1120

- 34. (c) Let total profit = 16 units
 According to question
 Profit share of A
 - = $\frac{3}{16} \times 16$ units = 3 units

profit share of B = $\frac{1}{4}$ ×16 = 4 units

then profit share of C = [16 - (4+3)]= 9 units

But profit of C = ₹ 243 [given]

9 units = ₹ 243

1 units = ₹ 27

profit share of B

- = 4 units
- = 27 × 4 = ₹ 108
- 35. (c) Total profit = ₹ 880 Since A gets 15% of total p

Since A gets 15% of total profit for management

:. Remaining profit

$$= 880 - \frac{880 \times 15}{100} = ₹ 748$$

A B

Amounts 5,000 6,000 Ratio of Capital 5: 6

The remaining profit is being divided in the ratio of their capital. A's share of proift

$$= \frac{748}{(5+6)} \times 5 = ₹ 340$$

Total profit Received by A = 340 +132 = ₹472

36. (b) A B C
Amounts invested 14,000 time (in months) 12 7 5

1,68,000

Ratio of profits 4 : 3 : 2Let their profits 4x : 3x : 2x

are 4x = 1,68,000

- $x = \frac{168000}{4} = 42,000$
- \Rightarrow Profit share of C = 2x
- = (2×42,000)
 - = ₹84000

⇒ Capital invested by C

$$= \frac{84000}{5} = ₹16,800$$

37. (b) Let total capital of A,B and C = 15 units

Let total time for investment = 12 units

Now, According to question . A B C

Capitals
$$\frac{1}{3} \times 15$$
 units $\frac{1}{5} \times 15$ units $\frac{15-8}{5} = 7$

Time Ratio of $\frac{1}{4} \times 12$ units $\times \frac{1}{6} \times 12$ units $\times \frac{1}{12}$ units time

Ratio of profits

Total profit = 5 + 2 +28 = 35 units also, total profit = ₹1820 (Given) 35 units = ₹1820

1 unit =
$$\frac{1820}{35}$$
 = ₹ 52

Hence A's share in profit = 5 units = 52× 5 = ₹ 260

38. (c) Let ratio of profit of A and B is a : b.

Ratio of profit of B and C = a : b A : B B : C a_{xa} : b_{xa} a_{xb} : b_{xb}

Note: Value of B would be same in both cases

A: B: C
$$a^2$$
: ab : b^2
According to the question,

 $a^2 = 6400$

$$a = 80$$

Simlarly $b^2 = 10,000$

 $\Rightarrow b = 100$ Amount recived by B = ab = 80×100 = ₹ 8,000

39. (b) Let the total share = 200 units

Share of C

=
$$200 \times \frac{1}{4} = 50$$
 units

Remaining share = (200 - 50) = 150 units

Share of A =
$$\frac{200}{3+2} \times 3 = 120$$
 units

Share of B = $\frac{200}{3+2}$ ×2 = 80 units

According to the question, C recives equal amounts from

A and B
∴ A's remaining share = (120 – 25)

= 95 B's remaining share = (80 – 25) = 55

A : B : C

New Ratio \rightarrow 95 : 55 : 50

19:11:10

40. (d) A: B: C

Ratio of profit $\rightarrow 2 : 3 : 7$

Average gain =
$$\frac{2+3+7}{3}$$
 = 4 units

According to the question,

4 units = ₹ 8000

1 unit = ₹ 2000

3 units = 3 × 2000 = ₹ 6000

share of B = ₹ 6000

41. (a) A : B : C

Note: To avoid fraction in calculation multiply all the ratios by 9 After that new Ratio of profits.

A : B : C

profit → 27 : 18 : 63

New profit of A = 27 +
$$\frac{63}{5+4} \times 4=55$$

New profit of B = $18 + \frac{63}{4+5} \times 5 = 53$

New profit sharing ratio of A and B

= 55 : 53

- 42. (b) Total capital of A invested in 1 year
 - $= 48,000 \times 3 + 40,000 \times 9$
 - = 1,44,000 + 3,60,000
 - = ₹ 5,04,000

Total capital of B invested in 1 year

- $= 60,000 \times 6 + 6,60,00 \times 6$
- = ₹756000

A : B

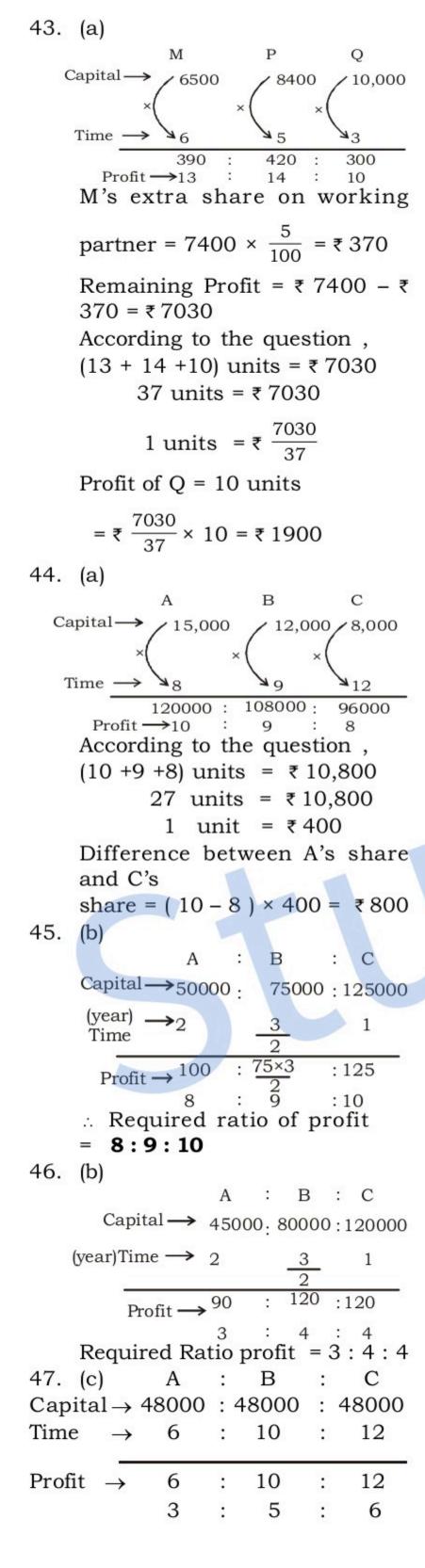
Capital
$$\rightarrow 504000$$
 : 756000

Profit $\rightarrow 2$: 3

 $\downarrow \times 6000$ $\downarrow \times 6000$

12,000 18,000

Total profit = (2 + 3) × 6000 = ₹ 30,000



Note: The capital of all the partners 50. (b) are equal so the profit would be divided in the ratio of their time. Capital invested by B = ₹ 49,000 According to the time, Ratio of profits of A and B (3 + 5 + 6)units= ₹ 5250 = 9000 : 7000 = 9 : 714 units = ₹ 5250 We know, $\left| \frac{C_1 \times T_1}{C_2 \times T_2} = \frac{P_1}{P_2} \right|$ 1 unit = ₹ 375 ∴ Share of A = 375 × 3 = ₹ 1125 Share of B = 375 × 5 = ₹1875 Share of C = $375 \times 6 = ₹ 2250$ $T_2 = 8 \text{ months}$ 48. (b) A : В C It means B invested his capital Capital \rightarrow 60000 : 80000 : 120,000 for 8 months. It means he $Time \rightarrow$ 9 : 12 joined business after (12 - 8 = 4)months. $Profit \rightarrow 240,000:720,000:1440,000$ 51. (d) Let amount invested by $A = \mathbb{Z} x$ 3 According to the question, Capital $\rightarrow x$: (x + 5000)(1 + 3 + 6) units = ₹ 1,60,480According to the question, Share of A in profit 10 units = ₹ 1,60,480 $=\frac{(26000-6000)}{2}=₹10,000$ 1 unit = ₹ 16,048 Share of A = $16,048 \times 1$ Share of B in profit = ₹ 16,048 = (26000 - 10000)Share of B = $16,048 \times 3$ = ₹ 16,000 = ₹ 48,144 By using formulaes: Share of C = $16,048 \times 6$ $C_1 \times T_1 - P_1$ = ₹ 96,288 C_2T_2 (a) Let the amount invested by $A = \mathcal{E} x$ $\frac{x \times 5}{(x+5000) \times 6} = \frac{10,000}{16,000}$ Now according to the question, B Capital $\rightarrow x : (x + 15000) : (x + 35000)$ x + x + 15000 + x + 35000Required capital of A = ₹ 15,000 = ₹125000 Required capital of B 3x = 125000 - 500003x = 75000x = 25000: Amount invested by B = ₹40,000 Amount invested by C = ₹ 60,000 Α : B : C Capital → 25000 :40,000 : 60,000

= (15,000 + 5000) = ₹ 20,000 52. (c) Ratio of Capital invested by A, B and C = 15 : 10 : 6Total Capital invested by A in 1 year $= 15x \times 4 + 30x \times 8 = 300x$ Total capital invested by B in 1 year $= 10x \times 6 + 5x \times 6 = 90x$ 5 : 8 : 12 $Profit \rightarrow$ Total capital invested by C in 1 year (5 + 8 + 12) units = ₹ 37450 $= 6x \times 12 = 72x$ 25 units = ₹ 37450 Ratio of profits: 1 unit = ₹ 1498 B : C A : ∴ Share of A = 1498 × 5 = ₹7490 300x: 90x: 72xShare of B = $1498 \times 8 = ₹11984$ Share of C = $1498 \times 12 = ₹17976$ 50x : 15x: 12x

Capital invested by A

= ₹ 42,000

 $\frac{42,000 \times 12}{49,000 \times T_2} = \frac{9}{7}$

A :

 $_{\mathrm{B}}$

4x = 3x + 15000

x = 715000

According to the question, (50x + 15x + 12x) = 73465077x = ₹ 34650

$$x = \ \colon \frac{34650}{77} = \colon 450$$

Profit of A = ₹450 × 50 = ₹22500 Profit of B = ₹ 450 × 15 = ₹ 6750 Profit of C = ₹ 450 × 12 = ₹ 5400

53. (d) Total capital invested by A in 1 year = $36000 \times 12 = ₹432000$ Total capital invested by B in 1 year

> $= 45000 \times 4 + (45000 - 20000) \times$ $5 + (55000 + 25000) \times 3$

= 180000 + 125000 + 240000

= 545000

В Α

Ratio of capital 432000 : 545000 Ratio of profit 432 : 545 Accrording to the question, (432 + 545) units = Rs. 117240 977 units = Rs. Rs. 117240

1 unit =
$$\frac{117240}{977}$$
 = Rs. 120

Difference in profit

 $= (545 - 432) \times 120$

= 13560

It means B will get Rs. 13560 more than A.

54. (b) Α В Capital 24000 : 32000 : 18000 9 12 16 :

Let the total profit = 100x

Extra share of A =
$$100x \times \frac{15}{100} = 15x$$

Extra share of B = $100x \times \frac{12}{100} = 12x$

Remaining profit

= [100x - (15x + 12x)] = 73x

According to the question,

Note: Remaining profit is distributed in the ratio of their capitals

: Share of C

$$= \frac{73x}{(12+16+9)} \times 9 = \frac{657x}{37}$$

$$\frac{657x}{37}$$
 = Rs. 65700

$$x = \text{Rs.} \ \frac{65700 \times 37}{657} = \text{Rs.} \ 3700$$

 \therefore Hence Required profit = 100x $= 100 \times 3700 = Rs. 3,70,000$

55. (c) Ratio of cows 12 \ : 16 \ Time Ratio of Rent 96 : 384 : 108 : 32 × 36 | × 36 × 36 1152 324

Total rent (288 + 1152 + 324) = Rs. 1764

: B 56. (a) Capital 500 \x : 400 \x : 800 \ Time Profit 60.00 : 4000 : 4800 : 10 : 12 15

> According to the question, (15 + 10 + 12) units = Rs. 444 37 units = RS. 444

1 units = $\frac{444}{37}$ = Rs. 12

Profit of A = $12 \times 15 = Rs. 180$ Profit of B = $10 \times 12 = Rs. 120$ Profit of C = $12 \times 12 = \text{Rs. } 144$

57. (d)B's profit share in 1 year = 12× 100 =Rs. 1200

> Interest of A = $\frac{10,000 \times 5 \times 1}{100}$ = Rs. 500

Interest of B == Rs. 200

Total profit of A and B = (1200 +500 + 200) = Rs.1900 Remaining profit

Note: Remaining profit will be divide in the ratio of their profit.

= (4000 - 1900) = Rs. 2100

10,000 : Capital 4000 5

Share of A in remaining profit

$$= \frac{2100}{(5+2)} \times 5 = \text{Rs. } 1500$$

Share of B in Remaining profit

$$=\frac{2100}{(5+2)}\times 2 = \text{Rs. } 600$$

Total profit of A = 500 + 1500 = Rs. 2000

Total profit of B

= 1200 + 600 + 200 = Rs. 2000

58. (a) Total capital invested by A in 1 year $= 12 \times 4000 = Rs. 48000$

Total capital invested by B in 1 year

 $= 6000 \times 4 + 8000 \times 8$

= 24000 + 64000 = Rs. 88000 Total capital invested by C in 1 year

 $= 8000 \times 9 + 3 \times 6000$

= 72000 + 18000 = 90,000

 $_{\mathrm{B}}$: C Capital 48000: 88000: 90,000

A :

24 : 44 : 45

According to the question, (24 + 44 + 45) units = Rs. 16950

113 units = 16950

1 units = Rs. $\frac{16950}{113}$ = Rs. 150

Hence,

Profit of A = $150 \times 24 = Rs. 3600$

Profit of B = 150×44

= Rs. 6600

Profot of C = 150×45

= Rs. 6750

59. (b) A : B : C

Capital 25x : 16x : 24x

Total capital of A in 1 year $= 25x \times 3 + (37.5x) \times 9$

= 75x + 337.5x = 412.5 x

Total capital of B in 1 year

 $= 16x \times 12 = 192x$

Total capial of C in 1 year

 $= 24 \times 12x = 288x$

В Α : C

Capital 412.5x : 192x : 288x

According to the question, (412.5x + 192x + 288x) = 35700

$$= \frac{35700}{892.5} = Rs. 40$$

Hence, Share of A

 $= 412.5 \times 40 = Rs. 16500$

60. (c) Total profit = Rs. 4000 According to the question, 20% of B's capital = RS. 4000

1% of B's capital = $\frac{4000}{20}$

B's total capital = $\frac{4000}{20} \times 100$ = Rs. 20,000

Let total capital required for business = 100 units.

Hence, Required capital for C = RS. 15,000

61. (a) Note: In such type of question we can assume ratio as per our need to avoid fraction.

Capital
$$\rightarrow$$

$$\begin{array}{cccc}
A & : & B \\
7 \times & 3 & 9 \times & 3
\end{array}$$
New Ratio, \rightarrow

$$\begin{array}{cccc}
A & : & B \\
21x & : & 27x
\end{array}$$

Total capital invested by A in 9 months

$$= 21x \times 3 + 7x \times 6 = 105x$$

Total capital of B invested in 9 months

$$= 27x \times 4 + 18x \times 5$$

$$= 108x + 90x = 198x$$

A : B

Capital 105x : 198x

According to the question, (105x + 198x) = Rs. 10201

$$303x = 10201$$

$$x = \text{Rs.} \ \frac{10201}{303}$$

Hence, Share of A

=
$$105 \times \frac{10201}{303}$$
 = Rs. 3535

Share of B =
$$198 \times \frac{10201}{303}$$

= Rs. 6666

62. (b)Interest for A

$$=\frac{42000\times7\times1}{100}$$
 = Rs. 2940

Interest for B

$$=\frac{48000\times7\times1}{100}$$
 = Rs. 3360

Interest for C

$$= \frac{32000 \times 7 \times 1}{100} = \text{Rs. } 2240$$

Total interest of

(A + B + C) = (2940 + 3360 + 65). (b) Given share of 2nd 2240) = Rs. 8540

Remaining profit

= Rs. 24400

Capital 42000: 48000: 32000

According to the question, (21 + 24 + 16) units = Rs. 24400 61 units = Rs. 24400

Share of A in Re-Hence, maining profit

 $= 400 \times 21 = RS. 8400$

Share of B in remaining profit

 $= 400 \times 24 = Rs. 9600$

Share of C in remaining profit

$$= 400 \times 16 = Rs. 6400$$

: Total share of A

= 8400 + 2940 = Rs. 11340

63. (a) A : B : C 6x3xx

According to question,

$$\Rightarrow 10x = 490$$

C's share, x = 49

64. (b) Investment of A = 1000

В 2000 3000

So,

A

1000 : 2000 : 3000

: 2 : 3 = 6

So, Profit of C = $\frac{3}{6} \times 2400 = 1200$

$$=\frac{5}{13}$$
 of (Ist + 3rd)

or,
$$\frac{2nd}{I^{st} + 3^{rd}} = \frac{5}{13}$$

$$I^{st} + 2^{nd} + 3^{rd} = 13 + 5 = 18$$

$$\therefore$$
 1 unit = $\frac{1620}{18}$

$$\therefore 5 \text{ unit} = \frac{1620}{18} \times 5$$
$$= 450$$

Hence share of 2nd = ₹ 450

66. (b) : loss will be divided according to their investment ratio =

В

3000: 2400

loss of B =
$$\frac{4}{(5+4)}$$
 × 720
= ₹ 320

67. (d) 3A = 4B

$$B = 2C$$

$$\frac{A}{B} = \frac{4}{3}$$

$$\frac{B}{C} = \frac{2}{1}$$