100+ PARTNERSHIP QUESTIONS WITH SOLUTION

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1. The investment of A is twice as that of B and thrice as that of C. B invested for twice the months than A and thrice the months than C. Who will earn the highest profit?
A) B
B) C
C) A
D) Both A and B
E) Both B and C

View Answer

Option D
Solution:
Investment ratio 6:3:2
Month ratio 3:6:2
Then 6*3 : 6*3 : 2*2
18:18:4==>9:9:2
Both A and B gets equal and highest profits.

2. A, B and C start a business and their investments are in the ratio 4 : 3 : 6. Both A and B starts the business and C joins them after 6 months. It was decided that C will get a monthly salary of Rs 600 from the annual profits. C's total salary came out to be 10% of the annual profit after a year. What is the share of B in the total profits?
A) Rs8500
B) Rs9720
C) Rs9650
D) Rs10100
E) None

View Answer

Option B
Solution:
C's monthly salary Rs600.
Then annual salary =600*6=3600(Because he work for 6 month only)
Rs3600is 10% of total profit.
Then total profit is Rs36000.
Ratio of their shares 4*12: 3*12: 6*6 =4:3:3
Profit left after reducing salary of C = 36,000 – 3,600 = 32,400
B's share 3/10*32400=Rs9720.

3. A, B and C started a business where their initial capital was in the ratio of 4:5:6. At the end of 8 months, A invested an amount such that his total capital became half to C's initial capital investment. If the annual profit of B is Rs. 7500 then what is the total profit ?
A) Rs22000
B) Rs18000
C) Rs20000
D) Rs19500
E) None

View Answer

Option A
Solution:
Initial Ratio 4:5:6
Now, 4*8 +3*4 :5*12 : 6*12
44:5*12 :6*12==>11:15:18.
B's share is Rs7500
ie 15 7500
(11+15+18)44 ? ==>22000

4. P start a business with Rs. 10000, Q joins him after 2 month with 20% more investment than P, after 2 month R joins him with 40% less than Q. If the profit earned by them at the end of the year is equal to the twice of the difference between investment of P and ten times the investment of R. Find the profit of Q ?
A) Rs35500
B) Rs42000
C) Rs38000
D) Rs41100
E) None

View Answer

Option C
Solution:
P : Q : R = (10000 × 12) : (12000 × 10) : (7200 × 8)
= 25 : 25 : 12

Now the Profit = 2 × (72000-10000) = 124000
Q's share 25/62*12400=Rs50000
Then profit of Q=50000-12000=Rs38000.

5. M and N are partners in a firm out of which M is sleeping partner and N is working partner. M invests Rs. 1,80,000 and N invests Rs. 90,000. N receives 14.5% of profit for managing the business and the rest is shared between both in ratio of their investments. M's share in the profit of Rs. 24000 is ?
A) Rs10100
B) Rs11500
C) Rs12520
D) Rs13680
E) None

View Answer

Option D
Solution:
Profit received by N as working partner = 14.5% of Rs. 24000= Rs. 3480
Balance in profit = 24000-3480 = Rs. 20520
Ratio of M and N=1,80,000: 90,000==>2:1
Then M's share 3 20520
2 ? Rs13680

6. Naveen and Kannan jointly started a business. Naveen invested four times as Kannan did and invested his money for double time as compared to Kannan. Kannan earned Rs. 5400. Then the total gain was ?
A) Rs45000
B) Rs48600
C) Rs52000
D) Rs55500
E) None

View Answer

Option B
Solution:
Investments ratio is = 4:1
Time period ratio is = 2:1
Gain ratio of Naveen and Kannan = 8:1
Kannan got Rs. 5400,
1 5400
9 ? ==>Rs48600
The total gain = Rs48600

7. A & B partner in a business , A contribute 1/4 of the capital for 15 months & B received 2/3 of the profit . For how long B's money was used
A) 8
B) 6
C) 10
D) 7
E) None

View Answer

Option C
Solution:
B received 2/3 of the profit
A : B = 1 : 2
Let the total capital = x
Then A's capital = x/4
B's capital = x – x/4 = 3x/4
If B's money was used for a months
Then A:B = (x/4)*15 : (3x/4)*a = 1 : 2
15/4 : 3b/4 = 1 : 2
15 : 3b = 1 : 2
5 : b = 1 : 2
a = 5*2 = 10

8. X, Y and Z enter into a partnership and theirs shares are in the ratio 1/2 : 1/3 : 1/4. After two months, X withdraws half of his capital and after 10 months, a profit of Rs.420 is divided among them. What is Y's share?
A) Rs180
B) Rs165
C) Rs 160
D) Rs195
E) None

View Answer

Option C
Solution:

Ratio of initial investments = 1/2 : 1/3 : 1/4 = 6 : 4 : 3.
Let their initial investments be 6x, 2x and 3x respectively.
Ratio (6x * 2) + (3x * 10) : (4x * 12) : (3x * 12)
= 42 : 48 : 36 ==>7 : 8 : 6.
B's share = 420 * 8/21 = Rs. 160.

9. If 8 (P's Capital) = 10 (Q's Capital) = 12 (R's Capital) , then out of the total profit of Rs 2590 , R will receive ?
A) Rs. 740
B) Rs. 630
C) Rs. 840
D) Rs. 730
E) None

View Answer

Option C
Solution:
8p = 10q = 12r
4p = 5q = 6r
q = 4p/5
r = 4p/6 = 2p/3
P : Q : R = p : 4p/5 : 2p/3
15:12:10
R's share = 2590 * (12/37) = 70*12 = Rs. 840.

10. P and Q invested in a business. They earned some profit which they divided in the ratio of 2:3. If P invested Rs.30000, the amount invested by Q is
A) Rs 40000
B) Rs 35000
C) Rs 45000
D) Rs 50000
E) None

View Answer

Option C
Solution:
30,000:Q = 2:3
Q = 90,000/2 = 45,000

1. Sam and Suresh start a business with investments of Rs. 5000 and Rs. 3000 respectively. After 2 months, Sam takes out Rs.2000 from his capital. After 1 more month, Suresh takes out Rs.2000 of his capital while Sunil joins them with a capital of Rs. 6000. At the end of 9 months from the start, they earn a total profit of Rs. 4920. Which of the following is the share of each member respectively in the profit?
A) Rs. 1860, Rs. 900, Rs. 2160
B) Rs. 15000, Rs. 850, Rs. 2300
C) Rs. 1650, Rs. 800, Rs. 1895
D) Rs. 1700, Rs. 860, Rs. 2150
E) None of these

View Answer

Option A
Solution:
Their investing ratio:
(5000*2 + 3000*7) : (3000*3 + 1000*6) : (6000*6)
= (30000):(15000):(36000) = 31:15:36
Total profit for 9 months = Rs.4920
Therefore, (31+15+36)82 == 4920
Sam's share 31 ? = Rs.1860
Suresh's share 15 ? = Rs900
Sunil's share 36 ? = Rs2160

2. Edwin started a business with Rs.25000 and after 4 months, Thomas joined him with Rs.60000. Edwin received Rs.58000 including 10% of profit as commission for managing the business. What amount did Thomas receive?.
A) Rs 80,000
B) Rs 72,000
C) Rs 65,000
D) Rs 82,000
E) None

View Answer

Option B
Solution:
Profit sharing ratio is
25000*12 : 60000*8=5:8
Total profit 100%

Edwin got 10% for Managing the business so remaining 90% is shared by both.
Edwin got 10%profit + 5/13 * 90%profit
0.1p + 5/13 * (0.9p)=58,000
Then 5.8p/13=58000==>p=1,30,000.
Now Thomas profit is 1,30,000-58,000=72,000.

3. P, Q and R start a business with Rs30,000, Rs40,000 Rs50,000 respectively. P stays for the entire year. Q leaves the business after two months but rejoins after another 4months but only 3/4 of his initial capital. R leaves after 3 months and rejoins after another 5months but with only 4/5 of his capital. If the year end profit is Rs 27,900, how much more than Q did R get?
A) Rs1500
B) Rs9300
C) Rs3100
D) Rs12,400
E) None

View Answer

Option A
Solution:
Their ratio's 30000*12:
(40000*2+30000*6) : (50000*3+40000*4)
36:26:31
Total profit is Rs 27900
Then (36+26+31) 93 == 27900
Diff of Q-R (31-26) 5 ? ==>Rs1500

4. A starts a business with Rs.40,000. After 2 months, B joined him with Rs.60,000. C joined them after some more time with Rs.1,20,000. At the end of the year, out of a total profit of Rs.3,75,000, C gets Rs.1,50,000 as his share. How many months after B joined the business, did C join?
A) 5
B) 8
C) 6
D) 10
E) None

View Answer

Option C
Solution:
40000 × 12 : 60000 × 10 : 120000 × x= 40 × 12 : 60 × 10 : 120 x=40 : 5 × 10 : 10x = 8 : 10 : 2x= 4 : 5 : x
C's share 375000x/(9+x)=150000
375x/(9+x)=150
X=6

5. M started a business with Rs.25,000. N joined him after 4 months with Rs20,000. After 2 more months, M withdrew Rs.10,000 of his capital and 2 more months later, N brought in Rs.10,000 more. What should be the ratio in which they should share their profits at the end of the year?
A) 2:3
B) 5:6
C) 4:7
D) 5:4
E) None

View Answer

Option D
Solution:
Their Ratio's
(25000×6+15000×6) :(20000×4+30000×4)
150+90:80+120=240:200 =5:4

6. A, B, C started a business with their investments in the ratio 3:6:5. After 8 months, A invested the same amount as before and both B and C withdrew half of their investments. The ratio of their profits at the end of the year is:
A) 22:30:24
B) 18:30:25
C) 16:18:22
D) 20:15:18
E) None

View Answer

Option B
Solution:
Investments: 3x,6x,5x

A:B:C=3x*8+3x*4 : 6x*8+(6x/2)*4 : 5x*8+(5x/2)*4
A:B:C= 18:30:25

7. Three friends A, B, C invested in a business in the ratio of 4:5:6. After 6 months C withdraw half of his capital. If the sum invested by A is 48000, then the profit earned by C out of the total profit of 60000.
A) 20000
B) 30000
C) 25000
D) 32000
E) None

View Answer

Option A
Solution:
sum invested by A = 4x = 48000.
X = 12000
Investment made by A, B , C – 48000, 60000, 72000
Ratio in which the profit will divide- 48000*12 : 60000*12 : 72000*6 + 36000*6
i.e 8:10:9. So C share = (9/27)*60000 = 20000

8. M and N invested in a business in which M invest 250 rupee more than N. N invested for 6 months while M invested for 4 months. If M get 200 more than N out of a total profit of 1000. Then the total amount invested in the business.
A) 550
B) 650
C) 750
D) 850
E) None

View Answer

Option B
Solution:
Let N invest 'x' rupees so M will invest (x+250)
Total investment made by M = (x+250)*4 and by N = 6x
According to the problem- [[4(x+250) – 6x]/(1000+ 10x)]*1000 = 200.
X = 200. Total investment = 200+250+200 = 650

9. A, B and C enter into a partnership with a capital in which A's contribution is Rs. 15,000. If out of a total profit of Rs. 1000, A gets Rs. 500 and B gets Rs. 300, then C's capital is :
A) 4000
B) 5000
C) 6000
D) 7000
E) None

View Answer

Option C
Solution:
A : B : C = 500 : 300 : 200 = 5 : 3 : 2.
Let their capitals be 5x, 3x and 2x respectively.
Then, 5x = 15000
=> x =3000.
C's capital = 2x = Rs. 6000.

10. A, B, C rent a pasture. A puts 15 cows for 6 months, B puts 20cows for 4 months and C puts 10 cows for 8 months for grazing. If the rent of the pasture is Rs. 500, how much must A pay as his share of rent?
A) 200
B) 250
C) 300
D) 180
E) None

View Answer

Option B
Solution:
A:B:C = (15*6) : (20*4): (10*8)= 9:8:8
A's rent= (9/25) * 500= Rs.180

1. Radhika started a workshop with an investment of Rs.40,000. She invested additional amount of Rs.10,000 every year. After two years her sister Rama joined her with an amount of Rs.85,000.Therefore,Rama did not invest any additional amount. On completion of 4 years from the opening of workshop they earned an amount of Rs.1,95,000. What will be Radhika's share in the earning ?
A) Rs.2,20,000
B) Rs.1,10,000
C) Rs.2,45,000
D) Rs.3,35,120
E) Rs.1,01,5000

View Answer

Option B
Solution:
Investment of Radhika = Rs. 40,000 +Rs. 50,000 +Rs. 60,000+Rs. 70,000 = Rs. 2,20,000
Investment of Rama = 85,000 * 2 = Rs. 1,70,000
Ratio = 22 : 17
Radhika's share = (22/39)*1,95,000 = Rs.1,10,000

2. P ,Q and R are partners in a business .P whose money has been used for 4 months , claims (1/8) of the profit , Q whose money has been used for 6 months ,claims at (1/3) of the profit . R had invested Rs. 1560 for 8 months .How much did P and Q contribute ?
A) Rs.720, Rs.1280
B) Rs.650, Rs.1100
C) Rs.758, Rs.1500
D) Rs.800, Rs.1720
E) Rs.870, Rs.1750

View Answer

Option A
Solution:
P : Q : R
[(960*3)/4] : [(960*8)/6] : [(1560*8)13] =720 : 1280 : 960

3. There are two persons invests Rs.1,15,000 and Rs.1,00,000 resp. in a project and agree that 50% of the profit should be divided equally between them and the remaining is to be treated as interest on the capital. If first person get Rs.500 more than the second persom .What is the total profit made in the business ?
A) Rs.1780.22
B) Rs.15445.12
C) Rs.21245
D) Rs.14333.33
E) Rs.14758.41

View Answer

Option D
Solution:
Ratio of the profit = 23:20
Therefore,
500*(100/50)*[(23+20)/(23-20)] = 14333.33

4. Ramesh, Suresh and Mahesh started a business with the investment in the ratio 5:8:10 resp. After 1 year Mahesh withdraw 50% of his capital and Ramesh increased his capital by 80% of his investment . After 2 years in what ratio should the earned profit be distributed among Ramesh ,Suresh and Mahesh?
A) 15:10:17
B) 14:16:15
C) 11:15:19
D) 8:13:7
E) 10:15:14

View Answer

Option B
Solution:
Ramesh :Suresh:Mahesh
[(5x*12)+(9x*12)]:(8x*24):[(10x*12)+(3x *12)] =14:16:15

5. Prabhu initiated his business with (1/2) of the total capital for (1/4)th of the time . His brother Sunny invests (1/3) of the capital for (1/2)th of the time and Prabhu's friend Tarun invests the remaining capital for the whole time. Find the share of Tarun in the total profit of Rs. 1,21,000.
A) Rs.20,000
B) Rs.24,500

C) Rs.50,000
D) Rs.33,420
E) Rs.44,000

View Answer

Option E
Solution:
Tarun's contribution in the business = 1-[(1/2)+(1/3)] = 1/6
Prabhu's share : Sunny's share : Tarun's share
(1/4)*(1/2):(1/2)*(1/3):(1/6)*1
3:4:4
Tarun's share in profit = (4/11)*1,21,000 = Rs.44,000

6. A ,B and C sharing profits in the ratio 3:2:2 . B retired from the company and A and C decide to share profits in the ratio 3:2.What is the gaining ratio?
A) 5:3
B) 4:5
C) 3:2
D) 2:1
E) 3:5

View Answer

Option C
Solution:
Gaining ratio = [(3/5)-(3/7)] : [(2/5)-(2/7)] = 3 : 2

7. Rs.61,105 ,is divided between Ram and Raman in the ratio 3 : 8 .What is the difference between thrice the share of Ram and twice the share of Raman?
A) Rs.52,500
B) Rs.42,000
C) Rs.35,720
D) Rs.38,885
E) Rs.47,200

View Answer

Option D
Solution:
Required difference = [(8/11)*2 – (3/11)*3] * 61,105
= (7/11)*61,105 =Rs. 38,885

8. Mr. X started a business investing Rs.25,000 in 1996.In 1997 he invested an additional amount of Rs. 10,000 and Mr. Y joined him with an amount of Rs.35,000.In 1998 , Mr.X invested another additional amount of Rs.10,000 and Mr. Z joined them with an amount of Rs. 35,000 .Find the share of Mr. Y in the profit of Rs. 1,50,000 earned at the end of 3 years from the start of the business in 1996?
A) Rs.50,000
B) Rs.80,000
C) Rs.70,000
D) Rs.40,000
E) Rs.60,000

View Answer

Option A
Solution:
Mr. X : Mr. Y : Mr. Z
[(25000*3)+(10000*2)+(10000*1)] : (35000*2) : (35,000*1)
105000 : 70000 : 35000
3 : 2 : 1
Mr. Y's share in the profit = (2/6)*1,50,000 = Rs. 50,000

9. A starts a business with an initial investment of Rs. 30,000. After 6 months , B enters into the partnership with an investment of Rs. 20,000.Again after 3 months C enters with an investment of Rs.50,000.If C receives Rs. 2000 in the profit at the end of the year ,what is the total annual profit?
A) Rs.7000
B) Rs. 8400
C) Rs.8000
D) Rs.9000
E) RS.8500

View Answer

Option B
Solution:
A, B and C's equivalent capitals
A : B : C
(30,000*12) : (20,000*6) : (50,000*3)
12 : 4 : 5
C's profit = 5x/12 = 2000
=> x = 8,400

10. Riya started a project by investing Rs. 60,000. 6 months later her sister Riama joins her by investing Rs. 1,00,000.At the end of 1 year from the commencement of the business ,they earn a profit of Rs.27,038.Find Riama's share in the profit?
A) Rs.14,150
B) Rs.13,100
C) Rs.13,560
D) Rs.12,290
E) Rs.12,510

View Answer

Option D
Solution:
Riya and Raima's capital in the ratio
= (60,000*12) : (1,00,000*6)
= 5 : 6
Therefore ,Raima's share in the profit = (5/11)*27,038 = 12,290

1. Kartik, Bhuvan and Sid entered into a partnership and invested Rs 13,000, Rs 16,000 and Rs 19,000 respectively. After 7 months, Kartik and Bhuvan added Rs 1,000 and Rs 5,000 respectively while Sid withdrew Rs 5,000. If at the end of year their annual profit is Rs 43,160, find the total profit share of Kartik and Sid.
A) Rs 28,030
B) Rs 27,190
C) Rs 26,830
D) Rs 28,420
E) Rs 27,040

View Answer

Option E
Solution:
Karti : Bhuvan : Sid
13000*7 + 14000*5 : 16000*7 + 21000*5 : 19000*7 + 14000*5
23 : 31 : 29
So required share = (23+29)/(23+31+29) * 43160 = Rs 27,040

2. Megha, Isha and Rani entered into a partnership by investing Rs 20,000, Rs X, and Rs 22,000 respectively for 6 months, 8 months and 10 months respectively. If Isha earns a profit of Rs 16500 out of a total profit of Rs 44,550, find the total investment done by all three.
A) Rs 47,000
B) Rs 25,000
C) Rs 54,000
D) Rs 39,000
E) Rs 67,000

View Answer

Option E
Solution:
Megha : Isha : Rani
20000*6 : X*8 : 22000*10
30000 : 2X : 55000
15000 : X : 27500
So X/(15000+X+27500) * 44550 = 16500
Gives X/(15000+X+27500) * 270 = 100
Solve, X = 25,000
So total investment = 20+25+22 = 67,000

3. Kamya, Prisha and Tisha started a business by investing Rs X, Rs (X+400) and Rs (X-200). If after the end of year, total share of profit of Kamya and Tisha is Rs 8100 out of a total profit of Rs 13,500, find the profit share of Prisha.
A) Rs 6100
B) Rs 5400
C) Rs 5100
D) Rs 6600
E) Rs 5500

View Answer

Option B
Solution:
Kamya : Prisha : Tisha
X : (X+400) : (X-200)
So (X+X-200)/(X + X+400 + X-200) * 13500 = 8100
Solve, X = 1600
So ratio of profit share is
1600 : 2000 : 1400 = 8 : 10 : 7
So profit share of Prisha = 10/25 * 13500 = Rs 5400

4. Preeti, Anu and Aarti entered into a business. Preeti invested Rs 2500 for some months, Anu invested Rs 3000 for 2 more

months than Preeti and Aarti invested Rs 3500 for 3 months less than Anu. If Anu got Rs 8400, out of a total profit of Rs 19,000, then Aarti invested her money for how many months?
A) 3 months
B) 5 months
C) 4 months
D) 6 months
E) 2 months

View Answer

Option C
Solution:
Preeti : Anu : Aarti
25000*x : 3000*(x+2) : 3500*(x-1)
5x : 6(x+2) : 7(x-1)
So (6x+12)/(5x + 6x+12 + 7x-7) * 19000 = 8400
Solve, x = 5
So Aarti invested money for 4 months

Directions (5-7): A, B and C started a business by investing Rs 800, Rs 1600 and Rs 2000 respectively. After a quarter they invested amounts in a ratio 1 : 4 : 2. After another quarter, they invested amounts in ratio 3 : 2 : 3.In the last quarter the ratio of investments was same as in 2nd quarter. Also in the last quarter, the respective amounts of A, B and C was double than the respective amounts invested in 2nd quarter. The total investment of C before 4th quarter was Rs 1400 more than that of A during same duration. Also ratio of B's share in profit to total profit at the end of year was 66 : 153.

5. Find the total investment of A, B and C.
A) Rs 10,200
B) Rs 11,300
C) Rs 9,800
D) Rs 10,080
E) Rs 11,090

View Answer

Option A
Solution:
Quarters means 3 months each
Ratio of investments in 2nd quarter – 1 : 4 : 2, so let amounts – x, 4x, 2x
Ratio of investments in 3rd quarter – 3 : 2 : 3, so let amounts – 3y, 2y, 3y
In last quarter, respective amount is double then in 2nd quarter, so amounts – 2x, 8x, 4x
In the last quarter the ratio of investments was same as in 2nd quarter. — this is not required to solve question.
Given:
(2000 + 2x + 3y) = 1400 + (800+x+3y)
Solve, x = Rs 200
Now ratio of profit share —A : B : C is
800*3 + x*3 + 3y*3 + 2x*3 : 1600*3 + 4x*3 + 2y*3 + 8x*3 : 2000*3 + 2x*3 + 3y*3 + 4x*3
3 gets cancelled, gives
(800+3x+3y) : (1600+12x+2y) : (2000+6x+3y)
Put x = 200 gives
1400+3y : 4000+2y : 3200+3y
Now given
(4000+2y)/(1400+3y + 4000+2y + 3200+3y) = 66/153
(2000+y)/(4300+4y) = 22/51
Solve, y = Rs 200
So now the total investment is—
(800+3x+3y) + (1600+12x+2y) + (2000+6x+3y) = (4400 + 21x + 8y)
put x = 200, y = 200, total investment = Rs 10,200

6. If they respectively had invested same amounts in each quarter after quarter 1 which is equal to their respective investments in quarter 1, then what would be the profit of A at the end of year out of a total profit of Rs 19,350?
A) Rs 2510
B) Rs 3320
C) Rs 2560
D) Rs 3150
E) None of these

View Answer

Option D
Solution:
800, 1600, 2000 as it is for 3 months, and then for next 9 months x, 4x and 2x
So ratio of profit share – A : B : C is
800*3 + 200*9 : 1600*3 + 800*9 : 2000*3 + 400*9

7 : 20 : 16
So profit share of A = 7/43 * 19350 = Rs 3150

7. If the respective investments in third quarter was changed and this was in ratio 2 : 4 : 1 (other investments being the same), then what would be the total investment of all three in third quarter, if the average investment of all A B and C was Rs 3100 for whole year?
A) Rs 700
B) Rs 800
C) Rs 500
D) Rs 900
E) None of these

View Answer

Option A
Solution:
New investments – 3z, 2z, and 2z
Investment of A = (800+3x+2z), B = (1600+12x+4z) and C =(2000+6x+1z)
Put x = 200
A = 1400+2z, B = 4000+4z, C = 3200+1z
Now given (1400+2z + 4000+4z + 3200+1z)/3 = 3100
Solve, z = Rs 100
So total investment for quarter 3 = 2z+4z+z = 7z = Rs 700

Directions (8-10): A, B and C started a business. They invested amounts in the ratio 1 : 3 : 2 respectively for 8 months. After this they invested amounts in ratio 2 : 3 : 4 respectively for 4 months. The average investment of A and B is Rs 2800 while average investment of B and C is Rs 3800.

8. Find the total investment of C?
A) Rs 4000
B) Rs 5000
C) Rs 6000
D) Rs 4500
E) Rs 3500

View Answer

Option A
Solution:
A : B : C is
x*8 + 2y*4 : 3x*8 + 3y*4 : 2x*8 + 4y*4
gives (2x+2y) : (6x+3y) : (4x+4y)
Given::
(x+2y+3x+3y)/2 = 2800
4x+5y = 5600
Also (3x+3y+2x+4y)/2 = 3800
5x+7y = 7600
Solve both equations, x = 400, y = 800
So total investment of C = (2x+4y) = Rs 4000

9. If B's investment for both the terms (4 months and 8 months) was swapped, then find the total profit share of B and C if annual profit is Rs 46,200.
A) Rs 45,600
B) Rs 32,800
C) Rs 43,600
D) Rs 37,800
E) None of these

View Answer

Option D
Solution:
B's investment for 8 months = 3x = 3*400 = Rs 1200 and for 4 months = 3y = 3*800 = Rs2400
Now swapped, means for 8 months = Rs 2400 and for 4 months is Rs 1200
So now ratio of A : B : C is
400*8 + 1600*4 : 2400*8 + 1200*4 : 800*8 + 3200*4
2 : 5 : 4
So required profit = (5+4)/(2+5+4) * 46200 = Rs 37,800

10. If A's share in annual profit is Rs 9030, find the total profit after a year.
A) Rs 41,390
B) Rs 45,150
C) Rs 42,610
D) Rs 46,240
E) Rs 43,170

View Answer

Option B
Solution:
Ratio of profit share is
(2x+2y) : (6x+3y) : (4x+4y)
x = 400, y = 800

So ratio becomes
1 : 2 : 2
So 1/5 * x = 9030
Total profit = x = Rs 45,150

1. A and B enter into a partnership with capitals in the ratio 7:8 and at the end of 8 months A withdraws. If they receive profits in the ratio of 7:11 find how long B's capital was used?
A) 8 months
B) 9 months
C) 11 months
D) 12 months
E) None of these

View Answer

Option C
Solution:
A : B
7 : 8
8 : x (time)
7*8 : 8*x = 7 : 11
56/8x = 7/11
x = 11

2. A began a business with Rs 12,000 and was joined afterwards by B with Rs 8,000. After how many months did B join if the profits at the end of the year were divided in the ratio 3:1?
A) 5 months
B) 6 months
C) 7 months
D) 8 months
E) None of these

View Answer

Option B
Solution:
12000*12:8000*(12-x)=3:1
solve x= 6 months

3. Two partners invest Rs 120000 and Rs 84000 in a business and agree that 70% of the profit should be divided equally between them and the remaining profit is to be treated as interest on capital. If one person gets Rs 900 more than the other then find the total profit made in the business.
A) Rs 17,000
B) Rs 20,000
C) Rs 5,100
D) Rs 18,000
E) None of these

View Answer

Option S
Solution:
120000*1 : 84000*1
10: 7 (difference = 3)
3 == 900
1 == 300
17 == 5100 ; this is 30%
100%=5100*100/30 = 17,000

4. A,B and C enter into a partnership with Rs 4000, Rs 6000 and Rs 8000 respectively. After 4 months A withdrew 25% and after 6 months B add 16(2/3)% and after 8 months C withdrew 25% , find the profit earned by A if they get a total profit of Rs 7500 after 1 year.
A) Rs 1000
B) Rs 2000
C) Rs 3000
D) Rs 4000
E) None of these

View Answer

Option B
Solution:
A : B : C
4000*4 6000*6 8000*8
(4000-1000)*8 (6000+1000)*6 (8000-2000)*4
= 40000 : 78000 : 32000
20:39:16

A = 20/(20+39+16) * 7500=2000

5. A starts a business with Rs 25000. After few months B join him with Rs 20000. If the ratio of their profit after 1 year is 15:8 find after how many months B joined A?
A) 2 months
B) 6 months
C) 4 months
D) 8 months
E) None of these

View Answer

Option C
Solution:
25000*12 : 20000(12-x)
15 : 8
solve and get x=4 months

6. A invests with B some rupees and B invested Rs 25,000. After 4 months A increase his investment with Rs 6000. If at the end of the year A and B have a profit of Rs 2400 and Rs 2500 respectively, find the sum invested by A.
A) Rs 15000
B) Rs 30000
C) Rs 25000
D) Rs 20000
E) None of these

View Answer

Option D
Solution:
[x*4 + (x+6000)*8]/(25000*12)=24/25
solve and get x= Rs 20000

7. Ram and Shyam invested Rs 5000 and Rs 7000 respectively. If Ram increases Rs 1000 after every 4 months find the ratio of their profit after 1 year.
A) 7 : 6
B) 6 : 7
C) 5 : 6
D) 6 : 5
E) None of these

View Answer

Option B
Solution:
A : B
5000*4 : 7000*12
+6000*4
+7000*4
=72000 : 84000
6 : 7

8. In a partnership A invest 1/6 of the capital for 1/6 of the time. B invest 1/3 capital for 1/3 time and C invest the remaining capital for whole time. If at the end of the year the profit earned is Rs 23000, Then what will be the share of B?
A) Rs 4000
B) Rs 5000
C) Rs 6000
D) Rs 4500
E) None of these

View Answer

Option A
Solution:
Let total capital=18
A=1/6*18 *1/6*12=6
B= 1/3*18*1/3*12=24
C=9*12=108
A:B:C=1:4:18
B=4/23*23000=4000

9. Sumit and Anu invested money in the ratio of 8:12, find for how much time anu invested the money if Sumit invested money for 9 months and he got Rs 1000 from a total profit of Rs 3000?
A) 9 months
B) 10 months
C) 11 months
D) 12 months
E) None of these

View Answer

Option D
Solution:

Sumit : Anu
8*9 : 12*x
72:12x
Profit=1000:2000=1:2
72/12x=1/2
x=12

10. A and B invested Rs 1200 and Rs 1500 respectively in a business. After 8 months A withdrew his entire money and C joined them with Rs 2000. If after a year, a total of Rs 1780 is obtained as a profit, find the total share of B and C?
A) Rs 1300
B) Rs 1280
C) Rs 880
D) Rs 980
E) None of these

View Answer

Option A
Solution:
A : B : C
1200*8 : 1500*12 : 2000*4
= 24:45:20
B+C=65/89*1780

1. Antra and Manvi invested Rs 3780 and Rs 3960 in a business. After 3 months, Antra withdew Rs 420 and Manvi withdrew Rs 180. At the same time Chetna joined them by investing Rs 4620. After a year, they made a profit of Rs 35,850. Find Manvi's share in the annual profit.
A) Rs 13,450
B) Rs 12,750
C) Rs 12,350
D) Rs 13,650
E) Rs 13,950

View Answer

Option B
Solution:
Ratio of shares of Antra : Manvi : Chetna is
3780*3 + 3360*9 : 3960*3 + 3780*9 + 4620*9
77 : 85 : 77
So Manvi's share = 85/(77+85+77) * 35850 = Rs 12,750

2. Shikha and Shreya invested in the ratio 7 : 8 in a business. They got an annual profit of Rs 34,450. If Shikha withdrew her entire money at the end of 9 years, then what is the difference between their shares of profit?
A) Rs 7570
B) Rs 6400
C) Rs 7560
D) Rs 7150
E) Rs 8180

View Answer

Option D
Solution:
Ratio of shares of profit of Shikha : Shreya is
7*9 : 8*12
21 : 32
So difference in shares = (32-21)/(21+32) * 34450 = Rs 7150

3. Kashish and Sheena started a business by investing Rs 2600 and Rs 2400 respectively. After 7 months, they added Rs 600 and Rs 800 respectively. 33% of the total profit earned after a year is given in donation. If after giving donation, the difference between the shares of Kashish and Sheena is Rs 350, find the total profit earned after a year.
A) Rs 17,000
B) Rs 25,000
C) Rs 18,000
D) Rs 12,000
E) Rs 27,000

View Answer

Option B
Solution:
Ratio of shares of profit of Kashish : Sheena is
2600*7 + 3200*5 : 2400*7 + 3200*5

171 : 164
So (171-164)/(171+164) * x = 350
Solve, x = Rs 16750
So (100-33)% of y (total profit) = 16750
Solve, y = Rs 25000

4. Karuna and Varuna invested Rs 2400 and Rs x in a business. After 3 months, Karuna added Rs 600 while Varuna withdrew Rs 300. After a year out of a total profit of Rs 36,920, Varuna received Rs 17,160. Find the amount invested by Varuna at the starting of business.
A) Rs 2700
B) Rs 1900
C) Rs 2100
D) Rs 2400
E) Rs 1600

View Answer

Option A
Solution:
Ratio of shares of Karuna and Varuna is
2400*3 + 3000*9 : x*3 + (x-300)*9
gives 11400 : (4x-900)
So (4x-900)/(11400+4x-900) * 36920 = 17160
Solve, x = Rs 2700

5. Vijay and Ajay started a business by investing Rs 2000 and Rs 1500 respectively. 4 months after start, Vijay withdrew all his money and Amit joined Ajay by investing Rs 3000. After the end of year, the difference between the shares of Amit and Vijay together and Ajay is Rs 3423. What is the total profit after a year?
A) Rs 12375
B) Rs 13455
C) Rs 14265
D) Rs 14350
E) Rs 12225

View Answer

Option E
Solution:
Ratio of shares of Vijay : Ajay : Amit is
2000*4 : 1500*12 : 3000*8
4 : 9 : 12
[(12+4)-9]/(4+9+12) * x = 3423
Solve, x = Rs 12225

6. Tiya and Piya invested Rs 1350 and Rs 1800 respectively in a business. After 9 months Piya withdrew her entire money and Riya and Siya joined the business by investing Rs 3000 and Rs 2700 respectively. If after a year, a total of Rs 13,750 is obtained as profit, find the total share of Piya and Riya together out of total profit.
A) Rs 6000
B) Rs 8000
C) Rs 7000
D) Rs 6500
E) Rs 7500

View Answer

Option C
Solution:
Ratio of shares of Tiya : Piya : Riya : Siya is
1350*12 : 1800*9 : 3000*3 : 2700*3
18 : 18 : 10 : 9
So (B+C) got = (18+10)/(18+18+10+9) * 13750 = Rs 7000

7. Veena, Meena and Teena started a business by investing Rs 7000, Rs 7500 and Rs 6500 respectively for 4 months. After 4 months Veena and Teena added same amount as before while Teena invested Rs 7000 for 8 months. If after this the profit earned was Rs 44,800, find the share of Teena.
A) Rs 15,380
B) Rs 14,440
C) Rs 13,520
D) Rs 14,350
E) Rs 13,380

View Answer

Option D
Solution:
Ratio of shares Veena : Meena : Teena is

7000*12 : 7500*12 : 6500*4 + 7000*8
42 : 45 : 41
So share of Teena is 41/(42+45+41) * 44800 = Rs 14,350

8. Vanya and Tanya started a business by investing Rs 1750 and Rs 2100 respectively. 5 months later, Tanya withdrew her entire money and Sanya and Manya joined the business with investments of Rs 4000 and Rs 6500 respectively. If after a year difference in total shares of Sanya and Manya together and total shares of Vanya and Tanya together is Rs 6,720, find the total profit.
A) Rs 16,900
B) Rs 16,800
C) Rs 15,100
D) Rs 15,300
E) Rs 16,300

View Answer

Option B
Solution:
Ratio of shares Vanya : Tanya : Sanya : Manya is
1750*12 : 2100*5 : 4000*7 : 6500*7
25 * 12 : 30*5 : 400 : 650
12 : 6 : 16 : 26
6 : 3 : 8 : 13
[(8+13)-(6+3)]/(6+3+8+13) * x = 6720
Solve, x = Rs 16,800

9. Sumit and Rumit started a business by investing Rs 7200 and Rs 6400 respectively. After 6 months, Sumit withdrew half and Rumit withdrew 1/4th of their respected money invested. If after a year, a total profit of Rs 19,800 is made, what is the share of Sumit?
A) Rs 8480
B) Rs 9490
C) Rs 9720
D) Rs 8150
E) Rs 9220

View Answer

Option C
Solution:
Rumit withdrew 1/4th so remained money Is 3/4th of 6400
Ratio of shares of profit of Sumit : Rumit is
7200* 6 + 3600*6 : 6400*6 + 4800*6
27 : 28
Share of Sumit = 27/(27+28) * 19800 = Rs 9720

10. Rohit, Lohit and Mohit started a business by investing in the ratio 1/3 : 2/4 : 2/5. After 8 months Mohit withdrew 1/2 of his investment. If after 12 months from start of business Rohit and Lohit got a share of Rs 16,000 out of the total profit, then find the share of Mohit?
A) Rs 7200
B) Rs 5700
C) Rs 6500
D) Rs 6400
E) Rs 4700

View Answer

Option D
Solution:
Investments of Rohit : Lohit : Mohit = 1/3 : 1/2 : 2/5 = 10 : 15 : 12
After 8 months Mohit withdrew 1/2 , so 1/2 * 12 = 6, so invested = 12-6 = 6 for another 4 months
So now ratio of shares of Rohit : Lohit : Mohit is
10 * 12 : 15 * 12 : 12 * 8 + 6 * 4
2 : 3 : 2
Let x is total profit. So (2+3)/(2+3+2) * x = 16000
x = 22400
So share of Mohit = 2/7 * 22400 = Rs 6400

A and B invested in a business in ration 7 : 6. After 7 months, C joined them with double the investment made by B. If A and C together got Rs 2380 from the total profit after a year, what was the annual profit?
A) Rs 3430
B) Rs 2880
C) Rs 2920
D) Rs 3570

E) Rs 3850

View Answer
Option D
Solution:
Investment of A = 7x, B = 6x. So that of C = 2*6x = 12x
So ratio of A : B : C is
7x*12 : 6x*12 : 12x*5
7 : 6 : 5
Let annual profit = Rs x. So
(7+5)/(7+6+5) * x = 2380
So x = Rs 3570

 A invested Rs 5000 in a business. After 4 months B joined him by investing Rs 4800. After a further of 2 months, C joined them with Rs 5200. If after the end of year, they earned a total profit if Rs 14,400, then what is the difference between the shares of A and B?
A) Rs 2570
B) Rs 2400
C) Rs 2560
D) Rs 2500
E) Rs 2000

View Answer
Option B
Solution:
Ratio of shares of profit of A : B : C is
5000*12 : 4800*8 : 5200*6
50*12 : 48*8 : 52*6
25 : 16 : 13
So difference in shares of A and B = (25-16)/(25+16+13) * 14400 = Rs 2400

 A, B and C invested in ratio 1/2 : 3/4 : 2/3. After 6 months C withdrew his 1/4th investment. If after 8 months A and B got a share of Rs 16,000 out of the total profit, then find the share of C?
A) Rs 7,000
B) Rs 8,000
C) Rs 8,400
D) Rs 7,800
E) Rs 7,300

View Answer

Option B
Solution:
Investments of A : B : C = 1/2 : 3/4 : 2/3 = 6 : 9 : 8
After 6 months C withdrew 1/4th , so 1/4 * 8 = 2, so invested = 8-2 = 6 for another 6 months
So now ratio of shares of A : B : C is
6x*8 : 9x*8 : 8x*6 + 6x*2
4 : 6 : 5
Let x is total profit. So (4+6)/(4+6+5) * x = 16000
x = 1600*15
So share of C = 5/15 * 1600*15 = Rs 8000

 A total of Rs 84,000 is invested in a business. Investment of A is Rs 4000 less than that of B and B's investment is Rs 4000 less than that of C. If A invested his amount for 5 months and B and C each for 4 months, then out of total profit if Rs 63,000 what is the share of A?
A) Rs 21,000
B) Rs 19,980
C) Rs 21,320
D) Rs 15,250
E) Rs 22,250

View Answer
Option A
Solution:
Let C's investment is Rs x, then B's = Rs (x – 4000), then A's = Rs (x – 4000 – 4000) = Rs (x – 8000)
So (x-8000) +(x-4000) + (x) = 84000
Solve, x = 32,000
So ratio of shares of A, B and C is
24000 * 5 : 28000*4 : 32000*4
15 : 14 : 16
So A's share = 15/(15+14+16) * 63000 = Rs 21000

 A invested Rs 5500 for 2 months more than B while B invested Rs 4000 for 1 month more than C who invested Rs 5600. If out of a total profit of Rs 6000, the difference in the shares of C and B is Rs 250 then find the time for which A invested the money.
A) 5 months
B) 7 months
C) 9 months
D) 8 months

E) 6 months

View Answer
Option D
Solution:
Let C invested money for x months, then B for (x+1) months and then A for (x+1+2) = (x+3) months
So ratio of shares of A : B : C is
5500*(x+3) : 4000*(x+1) : 5600*x
55(x+3) : 40(x+1) : 56x
Given
(56x – 40x – 40)/(55x+165+40x+40+56x) * 6000 = 250
Solve, x = 5
So A invested for 5+3 = 8 months

 A invested Rs 25,300 for 7 months, B invested Rs 25,200 for 11 months and C invested Rs 27,500 fir 7 months. Find the share of A and C together out of a total profit of Rs 33,600.
A) Rs 18,600
B) Rs 17,500
C) Rs 19,500
D) Rs 21,500
E) Rs 19,200

View Answer
Option E
Solution:
Ratio of shares of profit of A : B : C is
25300*7 : 25200*11 : 27500*7
23*7 : 252 : 25*7
23 : 36 : 25
Total of profit of A and C is
(23+25)/(23+36+25) * 33600 = Rs 19,200

 In a business, A invested Rs 25,000 and B invested Rs 24,000. As his salary A got 1/50th of the total profit of Rs 60,000 after which the remaining amount was shared among A and B in the ratio of their shares in profit. Find the difference in the shares of both.
A) Rs 2,300
B) Rs 2,440
C) Rs 2,500
D) Rs 2,400
E) Rs 2,380

View Answer
Option D
Solution:
Ratio of shares A : B is
25000 : 24000
25 : 24
A got 1/50 * 60000 = Rs 1200 extra
So remaining profit to be shared between A and B is 60,000 – 1200 = Rs 58,800
So now B got = 24/(25+24) * 58,800 = Rs 28,800
So A got = 1200 + (58800 – 28000) = Rs 31200
So different in shares = 31200 – 28800 = Rs 2400

 In a business A and B invested Rs 5,000 and Rs 6,000 respectively. After 9 months from start of business, C invested Rs 12000 and A and B both withdrew Rs 1,000 each from their investments. If at the end of year B and C together got Rs 12,250 from the total profit, then what is the total profit?
A) Rs 18,900
B) Rs 13,600
C) Rs 15,100
D) Rs 15,300
E) Rs 16,300

View Answer
Option A
Solution:
Ratio of shares A : B : C is
5000*9 + 4000*3 : 6000*9 + 5000*3 : 12000*3
19 : 23 : 12
Let x is the total profit
So [(23+12)/54]*x = 12,250
Solve, x = Rs 18,900

 In a business, A and B invested Rs10,000 and Rs 11,000 respectively. After 4 months they both withdrew Rs 1000 from their respective investments. After a further of 6 months, A invested Rs 1000 more and B invested Rs 2000 more. What is the difference in the shares of both if Rs 54,450 is received as total profit after a year?
A) Rs 2480
B) Rs 3490
C) Rs 2310

D) Rs 3150
E) Rs 3220

View Answer
Option D
Solution:
Ratio of shares of profit of A : B is
10000*4 + 9000*6 + 10000*2 : 11000*4 + 10000*6 + 12000*2
10000*6 + 9000*6 : 11000*4 + 10000*6 + 12000*2
10*6 + 9*6 : 11*4 + 10*6 + 12*2
10*3 + 9*3 : 11*2 + 10*3 + 12
57 : 64
Difference = (64-57)/(57+64) * 54450 = Rs 3150

In a business, A and B invested Rs 2600 and Rs 3900 respectively. After half year, A withdrew half and B withdrew 1/3rd from their investments. What is the difference in the shares of both, if a total profit of Rs 16,800 is received after a year?
A) Rs 4200
B) Rs 5700
C) Rs 4500
D) Rs 5830
E) Rs 4770

View Answer
Option A
Solution:
B withdrew =1/3 * 3900 = 1300, so for last 6 months invested 3900-1300 = 2600
Ratio of shares of profit of A : B is
2600*6 + 1300*6 : 3900*6 + 2600*6
26 + 13 : 39 + 26
2 + 1 : 3 + 2 = 3 : 5
So difference = (5-3)/(3+5) * 16800 = Rs 4200

Arun and Vibha started a business by investing Rs 20,000 and Rs 16,000 respectively. After 4 months, Tisha joined them by investing Rs 24,000. Also Arun and Vibha both added Rs 3000. Find the difference in profits of Arun and Tisha if after a year they get Rs 26,880 as profit.
A) Rs 2430
B) Rs 2880
C) Rs 2920
D) Rs 2220
E) Rs 1850

View Answer
Option B
Solution:
Ratio of shares of profit of
Arun : Vibha : Tisha
20000*4 + 23000*8 : 16000*4 + 19000*8 : 24000*8
=> 20 + 23*2 : 16 + 19*2 : 24*2
=> 11 : 9 : 8
So difference in profits of Arun and Tisha = [latex s="1″]\frac {11 – 8}{11+9+8} * 26,880 = Rs 1880 [/latex]

Priya started a business by investing Rs 2050. After 7 months she is joined by Varun and Rekha. If after 7 months Priya withdraws Rs 300, Varun invests Rs 2310 and Rekha invests Rs 2730, then find the share of profit of Varun and Rekha together out of total profit of Rs 11500 after a year.
A) Rs 6500
B) Rs 6320
C) Rs 6560
D) Rs 6500
E) Rs 6000

View Answer
Option E
Solution:
Ratio of shares of profit of
Priya : Varun : Rekha
2050*7 + 1750*5 : 2310*5 : 2730*5
=> 2050 + 250*5 : 330*5 : 390*5
=> 41+25 : 33 : 39
=> 22 : 11 : 13
So total profits of Varun and Rekha = [latex s="1″]\frac {11 + 13}{22+11+13} * 11,500 = Rs 6000 [/latex]

Kavita invested Rs 2400 for x months in a business and Vipin invested Rs 2800 for 3 months more than Kavita in the same business. If Kavita got Rs 18000 as her share out of a total profit of Rs 48,000, find for how many months Vipin invested?
A) 6 months
B) 15 months

C) 10 months
D) 12 months
E) 9 months

View Answer
Option C
Solution:
Ratio of shares of profit of
Kavita: Vipin
2400*x : 2800*(x+3
=> 6x : 7x+21
Given:
[latex s="1″]\frac {6x}{13x+21} *48,000 = 18,000 [/latex]
Solve, x = 7
So Vipin invested for 7+3 = 10 months

 Suman and Chavi started a business by investing Rs 1960 and Rs 2450 respectively. Chavi got Rs 200 per month for her work. After 5 months, Suman added Rs 340 more and Chavi left. If after a year they get a total profit of Rs 18,850, then what total amount did Chavi get?
A) Rs 7,150
B) Rs 6,980
C) Rs 6,320
D) Rs 4,250
E) Rs 6,250

View Answer
Option E
Solution:
Ratio of shares of profit of
Suman : Chavi
1960*5 + 2300*7 : 2450*5
=> 280*5 + 2300 : 350*5
=> 74 : 35
Chavi got 200*5 = Rs 1000 for her work, so now the profit which will be divided according to ratio will be 18850-1000 = Rs 17,850
So Chavi's share = [latex s="1″]\frac {35}{74+35} *17,850 = 5,250 [/latex]
So total amount of Chavi = 1000+5250 = Rs 6,250

 Reema invested Rs 24000 for x months, Sheena invested Rs 20000 for 3 months more than Reema and Tina invested Rs 16000 for 3 months more than Sheena. If difference between the shares of Tina and Reema is Rs 4200 out of a total profit of Rs 34,200, find x.
A) 5
B) 2
C) 9
D) 7
E) 6

View Answer
Option A
Solution:
Ratio of shares of profit of
Reema : Sheena : Tina
24000*x : 20000*(x+3) : 16000*(x+6)
=> 6x : 5x+15 : 4x+24
Given:
[latex s="1″]\frac {4x+24 – 6x}{6x + 5x+15 + 4x+24} * 34,200 = Rs 4200 [/latex]
Solve, x = 5

 Shreya started a business by investing Rs 2200. After 4 months she adds Rs 200 and Aditya joins her with Rs 3000. After further 6 months, both withdrew Rs 400. Find the difference in their shares of profit if total profit after a year is Rs 15,750.
A) Rs 2000
B) Rs 1750
C) Rs 1250
D) Rs 2350
E) Rs 1320

View Answer
Option C
Solution:
Ratio of shares of profit of
Shreya : Aditya
2200*4 + 2400*6 + 2000*2 : 3000*6 + 2600*2
=> 22 + 6*6 + 5*2 : 15*3 + 13
=> 34 : 29
So difference in their profits =
[latex s="1″]\frac {34 – 39}{34 + 29} * 15,750 = Rs 1250 [/latex]

 Three friends invested Rs 700, Rs 600 and Rs 630 respectively. The first one invested for x months, second for (x+3) months and third for (x+6) months. What is the longest duration of investment, if ratio of share of first to third is 4 : 9?

A) 20 months
B) 10 months
C) 14 months
D) 4 months
E) None of these

View Answer
Option B
Solution:
Ratio of shares of profit of
First : Second : Third
700*x : 600*(x+3) : 630*(x+6)
Given:
[latex s="1″]\frac {70x}{63x(x+6)} [/latex] = [latex s ="1″]\frac {4}{9} [/latex]
Solve, x = 4
So longest duration = 4+6 = 10 months

 Bhavna, Charu and Shikha invested Rs 3600 for 7 months, Rs 4300 for 9 months and Rs 4500 for 6 months respectively. What is the share of profit of Charu out of a total profit of Rs 12,120?
A) Rs 4260
B) Rs 3760
C) Rs 5160
D) Rs 5380
E) Rs 6320

View Answer
Option C
Solution:
Ratio of shares of profit of
Bhavna : Charu : Shikha
3600*7 : 4300*9 : 4500*6
=> 4*7: 43 : 15*2
=> 28 : 43 : 30
So share of Charu = [latex s="1″]\frac {43}{28+43+30} * 12,120 = Rs 5160[/latex]

 Prerna invested Rs x for 6 months, Ankita Rs 2400 for 10 months and Pavneet Rs 3900 for 8 months. If Ankita got Rs 6000 out of a total profit of Rs 19,200, then what is the money invested by Prerna?
A) Rs 2400
B) Rs 4400
C) Rs 2300
D) Rs 3800
E) Rs 3600

View Answer
Option E
Solution:
Ratio of shares of profit of
Prena : Ankita : Pavneet
x*6 : 2400*10 : 3900*8
=> 3x: 1200*10 : 3900*4
Given:
[latex s="1″]\frac {12000}{3(x+9200)} * 19200 = 6000 [/latex]
Solve, x = Rs 3600

 Trisha and Misha invested Rs 3500 and Rs 3000 in a business. After 7 months both added Rs 500 to their investments. If after a year the difference in their shares of profit is Rs 1140, find the total profit at the end of year.
A) Rs 16730
B) Rs 15770
C) Rs 12560
D) Rs 15830
E) Rs 14770

View Answer
Option B
Solution:
Ratio of shares of profit of
Trisha : Misha
3500*7 + 4000*5 : 3000*7 + 3500*5
=> 7*7 + 40 : 6*7 + 35
=> 89 : 77
Given:
[latex s="1″]\frac {89-77}{89+77} * x = 1140 [/latex]
Solve, x = Rs 15770