MATHS

BOOKS - CALCUTTA BOOK HOUSE MATHS (BENGALI ENGLISH)

PARTNERSHIP BUSINESS

Example Type

1. Sumita, Shreya and Smita started a business by investing total Rs. 6000. After a year

Sumita, Shreya and Smita get profit share of Rs. 50, Rs. 100 and Rs. 150 respectively. Smuita invested in this buniness

A. Rs. 1000

B. Rs. 2000

C. Rs. 3000

D. Rs. 4000

Answer:

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2. Amal and Bimal started a business. Amal invested Rs. 500 for 9 months and Bimal invested some money for 6 months. If they make a profit of Rs. 69 in a year and Bimal gets profit share of Rs. 46, the capital of Bimal in the business is

A. Rs. 1500

B. Rs. 3000

C. Rs. 4500

D. Rs. 6000

Answer:

3. In a business capital of A is double the capital of B and capital of B is 4 times the capital of C. Then the ratio of their profit is

    A. $1:4:8$

    B. $2:4:8$

    C. $8:2:4$

    D. $8:4:1$

Answer:

4. In a partnership business, Amal invested capital double the capital of Palash. The ratio of the period of investement is $\frac{1}{2} : \frac{1}{3}$. Then the ratio of their profit is

A. $1 : 3$

B. $3 : 1$

C. $6 : 1$

D. 2 : 3

Answer:

5. The total capital in a business is Rs. 50000. If A invests Rs. 4000 more than B and B invests Rs. 5000 more than C, then the profit becomes Rs. 35000. Then A will get profit-

A. Rs. 8400

B. Rs. 4900

C. Rs. 13600

D. Rs. 14700

Answer:

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6. Write whether the following statements are true or false:

(i) In a partnership business it needs at least 3 persons in the business.

7. Write whether the following statements are true or false:

If the ratio of the capitals of two friends be $2:3$ then the ratio of their profit is $2:3$.

8. Fill in the blanks:

(i) Partnership busines is of _____type.

(ii) Whithout any other conditions in partnership business if the capitals of all partners are invested for the same time, then such a business is called_____.

(iii) Without any other conditions in partnership business, if the capitals of all the partners are invested for different time period , then such a business is called_____.

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9. The total profit is Rs. 1500 in a partnership business of Rajib and Rahul. If the capital of Rajib is Rs. 6000 and profit is Rs. 900.Calculate the capital of Rahul.

10. The ratio of capitals of three persons is $3:8:5$ and the profit of 1st person is Rs. 60 less of the 3rd person, calculate the total profit in this business.

11. Jayanta,Ajit and Kunal started a parnership business investing Rs. 15000. At the end of the year, Jayanta, Ajit and Kunal received Rs. 800, Rs. 1000 and Rs. 1200 respectively as profit share. Calculate the amount of Jayanta's capital that was invested in the business.

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12. If in partnership business the ratio of capitals of Rahul and Amit is $4:5$. Keeping 10% of the total profit in the business as the capital, the rest of the profit is distributed between Rahul and Amit. It thus the profit of Rahul be Rs. 16000, then find the total profit of the business.

13. In a partnership business the ratio of the capitals of three friends is $3:4:5$. In the next year, if their capitals be increased by 10% , 15% and 20% respectively, then at theend of the second year at what ratio should their profits be distributed?

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14. In a partnership business the ratio of capitals of Sujoy and Palash is $4:5$ and the

ratio of their profits is $2:3$. If Sujoy has invested for 10 months then for how many months did Palash invest his capital?

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15. In a business, A invested 2 times capital than B and for a period of time which is also 3 times than . If B gets Rs. 12000 from the profit, then what is the total profit?

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16. In the year 2015, A invested Rs. 800 on 1st January, B invested Rs. 600 on 1st May and C invested Rs. 500 on 1st July. If the total profit of that year be Rs. 3480, find the profit of each of them.

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17. In a partnership business, Arpan invested Rs. 10000 for 6 months and Pulak invested some money for 8 months. If Pulak gets $\dfrac{4}{9}$

part of the total profit, then find the capital of Pulak.

18. In a partnership business , 6 times of the capital of A,8 times of the capital of B and 10 times of the capital of C are equal. Then find the ratio of the capitals of A, B and C.

19. In a partnership business, A and B have invested Rs. 600 and Rs. 750 respectively. If the loss after 1 year be Rs. 72, then find the loss of each of them.

20. A started a business investing Rs. 1400. After 5 months, B joined the business and after 2 months more, C and joined the business. If their proportiiona of profits after

one year be $4:3:2$, then what amount of capitals had B and C invested in the business?

21. Sova and Sujit together after buying a car for Rs. 250000, sold it at Rs. 262500. If while buying the car, Sova gave money $1\frac{1}{2}$ times of the money of Sujit, then find the part of the profit of each of them.

22. Deepu Rabeya and Megha started a small business with capital Rs. 6500, Rs. 5200 and Rs. 9100 respectively and got a profit of Rs. 14400 after 1 year. They have taken $\frac{2}{3}rd$ of that profit distributing equally within themselves and the rest of the profit according to the ratio of their capital. Find th parts of profits of each of them.

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23. Three friends, collecting Rs. 8000, Rs. 10000 and Rs. 12000 respectively and taking a loan from the bajk, started a business. At the end of the year, their profit is Rs. 13400. From that profit, they repaid the bank instalment of Rs. 5000 and then the rest of the profit was distributin amongst themselves according to the ratio of their capitals. Find the amount of profit of each of them.

24. Three friends, investing Rs. 120000, Rs. 150000 and Rs. 110000, bought a bus. One friend is a driver and the rest two friends are conductors. They decied that $\dfrac{2}{5}$ th of the gain will be distributed amongst themselves at the ratio $3:2:2$ due to their corresponding works and the rest at the ratio of their respective capitals. If the profit of a month be Rs. 29260, then find the amount of profit of each of them.

25. At the beginning of the year, Paradipbabu and Pramiladebi started jointly a business investing Rs. 24000 and Rs. 30000 respectively. After 5 months, Pradipbabu invested Rs. 4000 more in the business. If after the end of the year, the profit of the business be Rs. 27716 then find the amount of profit got by each of them.

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26. Rambabu ad Karabi -didi jointly started a business investing Rs. 3000-0 and Rs. 50000. After 6 months, Rambabu invested Rs. 40000 more in the business, but Karabi-didi had withdrawn Rs. 10000 for her own necessary. At the end of the year, if the profit of the business be Rs. 19000, then find the profit of each of them.

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27. At the beginning of a year, Arum and Ajoy jointly started and business investing Rs. 24000 and Rs. 30000 respectively. But after new months Arum invested Rs. 12000 more in the business. If the profit of the business be Rs. 14030 at the end of the year and Arun got Rs. 7130 as the profit, then find the number of month after which Arum had invested more in the business.

28. There potters from Mumartuli collectively took a loan of Rs. 100000 from a Co-operative Bank to set up a modelling workshop. They made a contract that after paying back the annual bank instalment of Rs. 28100, they would divide half of the profit among themselves in terms of the number of working days and the other hal will be equally divided among them. Last year they worked 300 days, 275 days and 350 days respectively and made a profit of Rs. 139100.Calculate the share of each in this profit.

29. Two friends invested Rs. 40000 and Rs. 50000 respectively to start a business. They made a contract that they would divide 50% of the profit equally between themselves and the remining profit in the Ratio of the their capitals. Calculate the share of profit of the first friend if it is Rs. 800 less than that of the second friend.

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30. Srikant and Gautam invested Rs. 240000 and Rs. 300000 respectively at the beginning of the year of purchase a mini bus to run it on a route. After 4 months their friend Peter joined them with a capital of Rs. 81000. Srikant and Gautam have withdrawn that money in the ratio of theri capitals. Calculate the share of each if they make a profit ofRs. 39150 at the end of the year.

31. Nivedita and Uma jointly started a business with capital Rs. 3000 and Rs. 5000 respectively. After 6 months, Nivedita inveted Rs. 4000 more in the business but uma has withdrawn Rs. 1000 after 6 months from the business. If the profit in 1 year be Rs. 6175, then find the profit of each of them.

32. Three friends A,B and C profited Rs. 1000. The ratio of capital of A and B is $2:3$ and that of B and C is $2:5$. Calculate the profit of each of them.

33. A,B and C invested Rs. 5000, Rs. 6000 and Rs. 4000 respectively in a business. A has taken 30% of the profit so as to manage the business and the rest of the profit is

distributed among them in accordance with the of their capital. If after 1 year A has go Rs. 200 more than the aggregate of the profits of B and C, then the profits of each of them the total amount of profit.

34. Three friends invested Rs. 14000 in a business. One year hence, the profits of the first, the second and the third friends are Rs. 337.50, Rs. 1125 and Rs. 637.50 respectively. Find

the amount of money invested by each of them.

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35. At the beginning of a year A, B and C jointly started a business. A invested $\frac{1}{3}$ part of the capital and B invested an amount eqwual to the total capital of A and C. If the profit be Rs. 840 at the end of the year, then find the profits of each of them.

36. A,B and C investement Rs. 1100, Rs. 1300 and Rs. 1700 in partnership business. After few month, Rs. 500 more is required in the busines which B gave. If the profit after 1 year be Rs. 2527 and the profit of A be Rs. 627, then after how many months, had B invested the excess money?

37. The ratio of the capitals of A,B and C is $\dfrac{1}{2} : \dfrac{1}{3} : \dfrac{1}{4}$ in a partnership business. After 4 months A have withdrawn half of his capital and after 8 months, more, the profit of the business is Rs. 2024.. Find the profit of A.

38. In a partnership business, Amal invested Rs. 600 more than Bimal. Bimal invested for $7\dfrac{1}{2}$ months and Amal invested for 2 months

more than Bimal. Now, if the profit of the business be Rs. 620 and Bimal got Rs. 140 less than Amal, find the capitals of Amal and Bimal.

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39. In a partnership business of Avoy and Pradip, the capital of Avoy is Rs. 23250. After 4 months, Avoy invested Rs. 3750 more and after 7 months, Pradip have withdrawn Rs. 3000 from the business. After one year, if the profits obtained by each of them be equal, then what

amount of money had pradip invested at first in the business?

Mct Type

1. In a business the ratio of the investment period of A, B and C is 5:6:8 and the ratio of their profits is 5:3:12 then the ratio of their capital will be

A. $2:1:3$

B. $2:3:1$

C. $3:1:2$

D. $1:2:3$

Answer: A

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2. In a business the ratio of the capitals of A and B $3:5$. After 6 months C has invested capitals in that business equal to the capital

of B. Then after 1 year, the ratio of their profits will be-

A. $6:10:5$

B. $3:5:5$

C. $3:5:2$

D. $6:2:3$

Answer: A

3. In a business twice of the capital of A is equal to the thrice of the capital of B. Also, capital of B is 4 times the capital of C. If the annual profit of the business be Rs. 148500, then the profit of B will be

A. Rs. 54000

B. Rs. 64000

C. Rs. 56000

D. Rs. 55000

Answer: A

4. The capitals of Sujoy and Anik are Rs. 14200 and 15600 respectively. After 1 year , if the profit of the business be Rs. 74500, then the profit of Sujoy will be

A. Rs. 39000

B. Rs. 39600

C. Rs. 35000

D. Rs. 35500

Answer: D

5. In a business, the ratio of the captials of A and B is $3:2$. After donating 5% of the profit, if the profit of A be Rs. 1196, then the total profit will be

    A. Rs. 8000

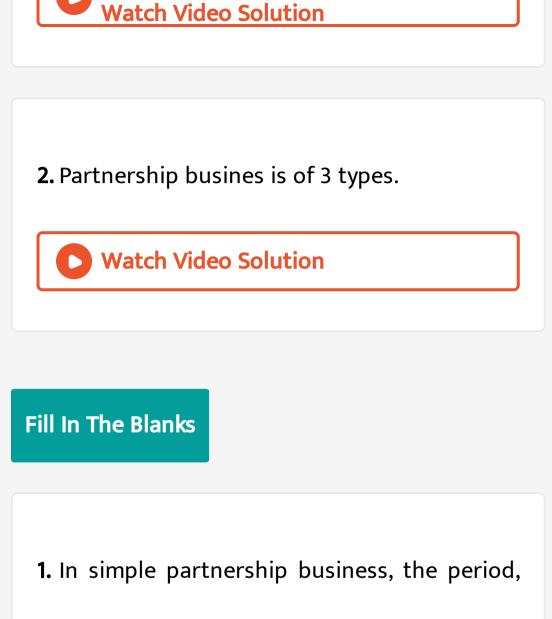   B. Rs. 7700

    C. Rs. 7500

D. Rs. 6500

Answer: C

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Write Whether The Following Statements Are True Or False

1. The persons by the capital of whom a partnership business runs on is called a partner.

2. Partnership busines is of 3 types.

Fill In The Blanks

1. In simple partnership business, the period, of time of the partner is..................................

2. In a partnership business at least.................... Parters are needed.

3. In the contanct of a partnership business, if the principle of the distribution of profit is not marked, then the profit will be distributed according to the ....ratio.

1. In a business, Akash invests Rs. 4000. After some times, Amit joined him with capital Rs. 8000. After 5 months of the involvement of Amit both of them get equal amount of profit. For how many years was the caspital of Akash invested in the business?

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2. In a joint business, A and B profited Rs. 150. If the capital of A was Rs. 600 and the profit of A was Rs. 90, then what was the capital of B?

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3. In a partnership business, A invested Rs. 1200 on 1st January, B invested Rs. 1500 on 1st April, C invested Rs. 1800 on 1st July and D invested Rs. 2100 on 1st October. If the end of

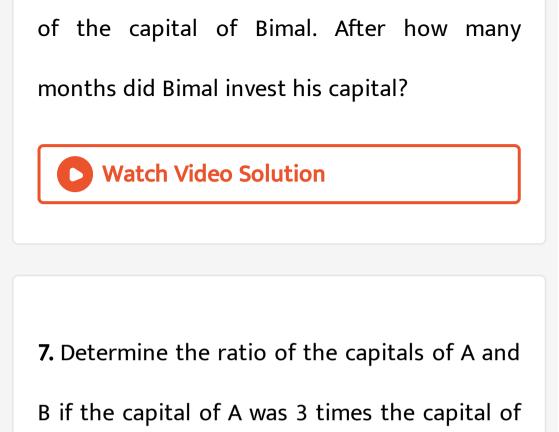a year, the total profit be Rs. 900, then find the

profit of D.

4. In a business the ratio of the capitals of A

and C is $2:1$ again the ratio of the capitals of

A and B is $3:2$. If the yearly income be Rs.

157300 then what will be the profit of B?

5. Ajit and Prakash invest capital in the ratio $12:11$ in a business. Their ratio of profit is $4:1$. If ajit invests for 11 months, then for how many period of time did Prakash invest his capital?

6. Animesh invests Rs. 3500 in a business, After a few months, due to investment of Rs. 12000 of Bimal, the capital of Animesh becomes half

of the capital of Bimal. After how many months did Bimal invest his capital?

7. Determine the ratio of the capitals of A and B if the capital of A was 3 times the capital of B, capital of B was $\frac{2}{3}$ time the capital of C.

8. A ,B and C jointly invested Rs. 10000 in a business. If after 1 year , A,B and C gets Rs. 200, Rs. 300 and Rs. 500 respectively as the profit, then find the capitals of each of them.

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9. in a partnership business. A invested Rs. 4000 for 6 months and B invested Rs. 3000 for 7 months. If the profit of B in that business be Rs. 1400 ten find th total amount of profit.

10. In a business, the ratio of the capitals of A

and B is $2:3$. If the investing period of B be 4

months, then for how many should A invest

his capital so as to the ratio of their profits is

$4:3$?

Long Answer Type Questions

1. Ashim, Rana and Bapi started a business with captials Rs. 1500, Rs. 1000 and Rs. 1750 respectively. If the total loss at the end of the uear be Rs. 425, then find th loss of each of them.

2. Sudip, Prakash and Sajal jointly started a business with capital Rs. 8000, Rs. 4000 and 2000 respectively. Sudip and Prakash both get

20% of the profit and Sudip get additional 30% as the salary. The rest of the profit is distributed among them equally. If the total profit in a year be Rs 3200, then find the profit of each of them.

3. Two partners A and B invested Rs. 12500 and Rs. 8500 respectively in a business. They come to a contract such that 40% of the profit will be distributed equally among them and the

rest of the profit will be distributed according to the ratio of their capitals. If A gets the profit Rs. 1950 then what will be the profit of B?

4. A and B started a business with capitals Rs. 3000 and Rs. 4000 respectively. After 3 months, C joined them investing a capital of Rs. 2000 and after 3 months more, D have joined the business with a capital of Rs. 5000.

If the profit at the end of the year be Rs. 2200, then what will be the profits of each of them?

5. At the beginning of a year, A and B, investing Rs. 60000 and Rs. 75000 respectively, bought a car. After 4 months their friend C has joined them with capital Rs. 40500, but A and B have withdrawn this capital according to the ratio of their capitals. If at the end of the year the

total profit be Rs. 19575 then what will be the

profit of each of them?

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6. A and B invested at the ratio of $7:9$. After 8

months A withdraw his capital. If the ratio of

their profit be $8:9$, then for how many period

of times had B invested his capital?

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7. Amal invested Rs. 35000 in a business, After 6 months Bimal joined the business with capital Rs. 60000. If the profit after 1 year be Rs. 26000, then find the difference of the profit of Amal and Bimal.

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8. Three friends A,B and C invested Rs. 3000, Rs. 4000 and Rs. 5000 respectively in a business with such a contract that from the

obtained profit, A will get 15% as manager, B will get 10% as assistant manager and the rest of the profit will be distributed amongh them according to the ratio of their capitals. Now, if the profit of A be Rs. 540, then find the profit of B and C.

9. A and B jointly started a business investing Rs. 8000 and Rs. 10000 respectively. After 6 months, C joined them with a capital iof Rs.

6000. If after 3 years, the total profit be Rs. 9660 then find the profit of each of them.

10. Two friends started a business with capitals Rs. 12500 and Rs. 8500 respectively. They have decided that 60% of the profit would be distributed between them equally and the rest of the profit would be distributed according to their ratio of capitals. If one friends got Rs.

300 more than the other friend, then what was the total profit?

11. A and B started a business investing Rs. 10000 and Rs. 9000. After 6 months, A invested Rs. 3000 more and after 8 months., C joined them with capital Rs. 5000 but B had withdrawn Rs. 3000. If the profit at the end of a year be Rs. 5715 then what would be the profit of each of them?

12. In a business, A invested Rs. 4000 for 8 months and Rs. 6000 for 4 months, B invested Rs. 3000 for 6 months and Rs. 5000 for 6 months. Also C invested Rs 3000 for 12 months in the same business. If at the end of the year the profit be Rs. 700, then find the profit of each of them.

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13. A, B and C invested in a business with capitals Rs. 4800, Rs. 6600 and Rs. 9600 respectively. A got $\dfrac{1}{8}$ part of the profit as salary for managing the business and the rest of the profit would be distributed according to the ratio of their capitals. If after one year, A's share of profit be Rs. 780 then find the profit of B and C.

14. In a business A has invested Rs. 600 more than B. But B has invested for 5 months whereas A has invested for 4 months. If with in the profit of Rs. 528, A gets Rs. 48 more than B then find the capitals of each of them.

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15. In a business, the ratio of capitals of A and B is $4:5$. After 3 months, A has withdrawn $\dfrac{1}{4}$ part and B has withdrawn $\dfrac{1}{5}$ part of his

capital. If after 10 months, the profit of the business be Rs. 760 then find the profit of A and B.

16. In a business the ratio of the capital of A and B is $3:2$. After 3 months, c has invested Rs. 10000, but after 8 months more, C has withdrawn all of this capital. If at the end of the year, from the total profit of Rs. 7700, C

has got a profit of Rs. 1100, then what was the investement of A?

17. In a business, A invested $\dfrac{1}{3}$ part of total capital and B invested some money equal to total investment of both A and C. If after 1 year, the profit be Rs. 72000, then how much money will C get?