

**Spardhaguru Skill Edge Aptitude Academy**

Subject: Quantitative Aptitude  
Topic: Partnerships,

**The "Golden Rules" of Partnership**

- Simple Partnership:** When time is the same for all.  
Profit Ratio = Investment Ratio
- Compound Partnership:** When time periods differ.  
Profit Ratio =  $(I_1 \times T_1) : (I_2 \times T_2) : (I_3 \times T_3)$
- Active Partner Rule:** If a partner gets a salary (e.g., 5% or 10%), subtract it first from the Total Profit. Divide only the remaining balance.

**The Shortcut Table for Quick Solving**

Problem Scenario	Student's Strategy
Fractions (1/2 : 1/3)	Multiply all by the LCM to get whole numbers.
Investment Changes	Calculate "Monthly Units" (Rs 6000 X 4 months + Rs 8000 X 8 months).
Expense Sharing	Total Spent ÷ People = Fair Share. (Spent > Share = Owed money).
Data Sufficiency	Check if you have both a Ratio link and one actual Value.

**Murthy Sir's Shortcut Tip**

Note: "Always look for the 'Unit Value'. Once you find what 1 Unit equals in Rupees, every other part of the question becomes simple multiplication!"

**PRACTICE QUESTION FOR SUBSEQUENT EXAMS**

**Question 01:** A B C started a business by investing RS 120000 RS 135000 and Rs 150000 respectively find the share of each out of an annual income is Rs 56700

- A) Rs 16,800    B) Rs 15,200  
C) Rs 16,300    D) Rs 17,200

**Question 02:** P, Q, and R start a business by investing Rs 45,000, Rs 70,000, and Rs 90,000 respectively. Find the share of Q out of an annual profit of Rs 16,400.

- A) Rs 4,500    B) Rs 5,600  
C) Rs 6,300    D) Rs 7,200

**Question 03:** Three partners A, B, and C invest capital in the ratio 3 : 4 : 5. If the total annual profit is Rs 96,000, what is the difference between the shares of A and C?

- A) Rs 8,000    B) Rs 12,000  
C) Rs 16,000    D) Rs 20,000

**Question 04:** X and Y started a business with investments of Rs 20,000 and Rs 25,000. After 4 months, Z joined them with Rs 30,000. If the total profit at the end of the year is Rs 50,000, find Z's share.

- A) Rs 12,000    B) Rs 15,000  
C) Rs 16,000    D) Rs 20,000

**Question 05:** A, B, and C start a business with investments of Rs 15,000, Rs 18,000, and Rs 21,000. At the end of the year, they earn a profit of Rs 90,000. Find B's share.

- A) Rs 25,000    B) Rs 30,000  
C) Rs 35,000    D) Rs 40,000

**Question 06:** P starts a business with Rs 4000. After 3 months, Q joins him with Rs 6000. After 6 months from the start, R joins with Rs 10,000. If the annual profit is Rs 5600, what is R's share?

- A) Rs 1500    B) Rs 1800  
C) Rs 2000    D) Rs 2100

**Question 07:** A and B enter into a partnership with capitals in the ratio 5:6. After 8 months, A withdraws his capital. If they receive profits in the ratio 5:9, find how long B's capital was used.

- A) 10 months    B) 12 months  
C) 14 months    D) 15 months

**Question 08:** P and Q started a business with Rs 50,000 and Rs 40,000. After 6 months, P added Rs 10,000 and Q withdrew Rs 10,000. If the annual profit is Rs 45,000, find P's share.

- A) Rs 22,000    B) Rs 25,000  
C) Rs 27,500    D) Rs 30,000

**Question 09:** X, Y, and Z enter a partnership with Rs 30,000 each. After 4 months, X withdraws Rs 10,000, Y withdraws Rs 5,000, and Z adds Rs 10,000. Out of a total annual profit of Rs 93,000, find the share of Z.

- A) Rs 31,000    B) Rs 36,000  
C) Rs 42,000    D) Rs 45,000

**Question 10:** A starts a business with Rs 25,000. After 4 months, B joins with Rs 30,000. After another 2 months (i.e., 6 months from start), C joins with Rs 40,000. Find the ratio in which the profit should be distributed at the end of the year.

- A) 15 : 16 : 12    B) 15 : 12 : 10  
C) 25 : 24 : 20    D) 5 : 6 : 8

**Question 11:** M and N start a business with Rs 15,000 and Rs 20,000. After 3 months, M adds Rs 5,000 while N withdraws Rs 5,000. If the profit after one year is Rs 11,200, find the difference between their shares.

- A) Rs 400    B) Rs 800  
C) Rs 1,200    D) Rs 0 (They are equal)

**Question 12:** Three friends started a business investing Rs 10,000 each. After 4 months, the first friend withdrew Rs

2,000, the second added Rs 3,000, and the third added Rs 5,000. Find the ratio of their profits at the end of the year.

- A) 26 : 31 : 35    B) 22 : 31 : 35  
C) 22 : 33 : 40    D) 24 : 32 : 40

**Question 13:** P, Q, and R enter into a partnership. P invests double the amount of Q, and Q invests half the amount of R. If the total profit is Rs 12,000, find Q's share.

- A) Rs 2,000    B) Rs 3,000  
C) Rs 4,000    D) Rs 6,000

**Question 14:** A, B, and C start a business. A invests  $\frac{1}{4}$  of the total capital, B invests  $\frac{1}{3}$  of the total capital, and C invests the remaining. Out of a profit of Rs 14,400, find C's share.

- A) Rs 4,800    B) Rs 5,400  
C) Rs 6,000    D) Rs 7,200

**Question 15:** X invests 4 times as much as Y, and Y invests 5 times as much as Z. If the annual profit is Rs 26,000, what is the difference between X and Z's share?

- A) Rs 15,000    B) Rs 19,000  
C) Rs 20,000    D) Rs 21,000

**Question 16:** In a business, A's capital is  $\frac{1}{2}$  of B's capital and B's capital is  $\frac{1}{2}$  of C's capital. If the total profit is Rs 3,500, find the share of A.

- A) Rs 500    B) Rs 700  
C) Rs 1,000    D) Rs 1,500

**Question 17:** Three partners shared the profit in a business in the ratio 5 : 7 : 8. They had partnered for 14 months, 8 months, and 7 months respectively. What was the ratio of their investments?

- A) 20 : 49 : 64    B) 35 : 40 : 42  
C) 5 : 7 : 8    D) 1 : 1 : 1

**Question 18:** Three partners X, Y, and Z share profits. If 4 times X's capital = 6 times Y's capital = 10 times Z's capital, find the ratio of their capitals.

- A) 15 : 10 : 6    B) 5 : 3 : 2  
C) 2 : 3 : 5    D) 6 : 10 : 15

**Question 19:** A, B, and C enter into a partnership. A invests  $\frac{1}{3}$  of the capital, B invests as much as A and C together invest. If the annual profit is Rs 7,200, find C's share.

- A) Rs 1,200    B) Rs 2,400  
C) Rs 3,600    D) Rs 800

**Question 20:** In a business, A's capital is equal to  $\frac{3}{4}$  of B's capital and B's capital is  $\frac{4}{5}$  of C's capital. Out of a total profit of Rs 12,000, what is the sum of A and B's shares?

- A) Rs 6,000    B) Rs 7,000  
C) Rs 8,000    D) Rs 9,000

**Question 21:** P, Q, and R start a business. P's investment is 25% more than Q's investment and Q's investment is 20% less than R's investment. What is the ratio P : Q : R?

- A) 4 : 5 : 4    B) 1 : 1 : 1  
C) 5 : 4 : 5    D) 25 : 20 : 10

**Question 22:** A, B, and C are partners. A's capital is double B's capital and B's capital is triple C's capital. If the total profit is Rs 20,000, find the difference between A's share and C's share.

- A) Rs 8,000    B) Rs 10,000  
C) Rs 12,000    D) Rs 15,000

**Question 23:** A started a business with Rs 21,000 and is joined afterwards by B with Rs 36,000. After how many months did B join if the profits at the end of the year are divided equally?

- A) 3 months    B) 4 months  
C) 5 months    D) 7 months

**Question 24:** P and Q enter into a partnership with capitals in the ratio 3 : 2. If at the end of the year, the profit ratio is 9 : 4, and P invested for the whole year, for how many months did Q invest?

- A) 6 months    B) 8 months  
C) 9 months    D) 10 months

**Question 25:** A began a business with Rs 45,000 and was joined afterwards by B with Rs 54,000. If the profits at the end of the year were divided in the ratio 2 : 1, B joined the business after:

- A) 5 months    B) 6 months  
C) 7 months    D) 8 months

**Question 26:** X started a business with Rs 12,000. After some months, Y joined with Rs 8,000. If the profit at the end of the year was shared in the ratio 3 : 1, how long was Y's money used? A) 4 months B) 6 months C) 8 months D) 9 months

**Question 27:** M and N start a business with Rs 10,000 and Rs 8,000. M withdraws after 8 months. If they share the annual profit in the ratio 5 : 4, for how many months was N's capital invested?

- A) 8 months    B) 10 months  
C) 12 months    D) 6 months

**Question 28:** A and B start a business with Rs 50,000 and Rs 45,000. After 4 months, A takes out half of his capital and B takes out one-third of his capital. C joins them with Rs 70,000. At the end of a year, they earn a profit of Rs 50,800. Find C's share. A) Rs 18,000    B) Rs 20,000

- C) Rs 22,400    D) Rs 25,000

**Question 29:** P, Q, and R enter into a partnership. P invests some amount at the beginning, Q invests double the amount after 6 months, and R invests thrice the amount after 8 months. If the annual profit is Rs 27,000, find R's share.

- A) Rs 9,000      B) Rs 12,000  
C) Rs 6,000      D) Rs 7,500

**Question 30:** X and Y started a business with Rs 16,000 and Rs 12,000. After 3 months, X withdrew Rs 5,000 while Y invested Rs 5,000 more. After 3 more months, Z joined with Rs 21,000. What is the share of Z in the total profit of Rs 26,400 after one year?

- A) Rs 7,200      B) Rs 8,400  
C) Rs 9,600      D) Rs 10,800

**Question 31:** In a partnership, the ratio of investments of P and Q is 4 : 5, and the ratio of Q and R is 2 : 3. If the total profit is Rs 31,000, find the share of R.

- A) Rs 10,000      B) Rs 12,000  
C) Rs 15,000      D) Rs 18,000

**Question 32:** A, B, and C started a business. The ratio of A's investment to B's is 3 : 2, and the ratio of B's to C's is 4 : 1. If B's share of the profit is Rs 4,000, find the total profit.

- A) Rs 9,000      B) Rs 10,000  
C) Rs 11,000      D) Rs 12,000

**Question 33:** X and Y invested in a business in the ratio 5 : 6. Y and Z invested in the ratio 9 : 10. If the total annual profit is Rs 48,000, what is the difference between X and Z's share?

- A) Rs 4,000      B) Rs 5,000  
C) Rs 6,000      D) Rs 8,000

**Question 34:** A's investment is  $\frac{2}{3}$  of B's investment and B's investment is  $\frac{1}{4}$  of C's investment. If the total profit is Rs 51,000, find A's share.

- A) Rs 6,000      B) Rs 9,000  
C) Rs 12,000      D) Rs 15,000

**Question 35:** In a business, the ratio of A:B is 1:2 and B:C is 3:4. If A's share of the profit is Rs 3,000, find the share of C.

- A) Rs 6,000      B) Rs 8,000  
C) Rs 9,000      D) Rs 12,000

**Question 36:** A, B, and C start a business with capitals in the ratio  $\frac{1}{3} : \frac{1}{4} : \frac{1}{5}$ . After 4 months, A withdraws half of his capital. If the total annual profit is Rs 8,470, find A's share.

- A) Rs 2,520      B) Rs 2,800  
C) Rs 3,150      D) Rs 3,500

**Question 37:** Three partners X, Y, and Z invest in the ratio  $\frac{2}{3} : \frac{3}{5} : \frac{5}{6}$ . Find the share of Z if the total profit at the end of the year is Rs 6,300.

- A) Rs 2,100      B) Rs 2,400  
C) Rs 2,500      D) Rs 2,700

**Question 38:** P, Q, and R enter into a partnership. P invests  $\frac{1}{2}$  of the capital for  $\frac{1}{3}$  of the time, Q invests  $\frac{1}{3}$  of the capital for  $\frac{1}{4}$  of the time, and R invests the rest of the capital for the whole time. Find the ratio of their profits.

- A) 4 : 2 : 3      B) 4 : 2 : 12  
C) 1 : 2 : 6      D) 2 : 1 : 12

**Question 39:** X, Y, and Z start a business in the ratio  $\frac{1}{2} : \frac{1}{3} : \frac{1}{4}$ . After 6 months, Z increases his share by 100%. If the annual profit is Rs 10,000, find Z's share.

- A) Rs 2,500      B) Rs 3,333  
C) Rs 4,000      D) Rs 4,500

**Question 40:** A and B invest in a business in the ratio 3 : 2. After 3 months, A withdraws 20% of his money while B adds 25% more. Find the profit ratio at the end of the year.

- A) 123 : 115      B) 33 : 29  
C) 141 : 128      D) 12 : 11

**Question 41:** P, Q, and R start a business with investments in the ratio 2 : 3 : 4. After 6 months, P adds an amount equal to his initial investment, while Q and R each withdraw half of their investments. Find the ratio of their profits at the end of the year.

- A) 6 : 4 : 5      B) 3 : 2 : 2  
C) 12 : 9 : 12      D) 4 : 3 : 4

**Question 42:** A, B, and C invested in the ratio 4 : 5 : 6. After 4 months, A withdrew  $\frac{1}{4}$  of his investment, B withdrew  $\frac{1}{5}$  of his investment, and C withdrew  $\frac{1}{6}$  of his investment. Find the profit ratio after one year.

- A) 33 : 44 : 55      B) 11 : 14 : 17  
C) 10 : 13 : 16      D) 1 : 1 : 1

**Question 43:** Three partners start a business with capitals in the ratio 5 : 6 : 8. After 6 months, the first partner adds 20% more, the second adds 50% more, and the third withdraws 25%. What is the new ratio of their profit shares at the end of the year?

- A) 11 : 15 : 14      B) 5 : 9 : 6  
C) 55 : 75 : 70      D) 10 : 18 : 15

**Question 44:** X and Y enter a partnership with capitals in the ratio 5 : 6. After 4 months, X withdraws  $\frac{1}{5}$  of his capital and Y withdraws  $\frac{1}{3}$  of his capital. If the profit at the end of 10 months is Rs 630, find X's share.

- A) Rs 300      B) Rs 320  
C) Rs 350      D) Rs 400

**Question 45:** P and Q started a business with capitals in the ratio 3 : 2. After 2 months, P added  $\frac{1}{3}$  of his capital and Q added  $\frac{1}{2}$  of his capital. Find the profit ratio at the end of 6 months.

- A) 11 : 9      B) 23 : 16  
C) 5 : 4      D) 3 : 2

**Question 46:** A and B invested in a business in the ratio 4 : 3. After 5 months, A withdrew 25% of his capital and B increased his capital by 33.33%. If the gain at the end of the year is Rs 10,200, find the difference between their shares.

- A) Rs 400      B) Rs 600  
C) Rs 800      D) Rs 1,000

**Question 47:** P and Q start a business with Rs 28,000 and Rs 35,000. P is a working partner and gets 20% of the profit as salary. If the total profit is Rs 12,600, find the total amount P receives (Salary + Share).

- A) Rs 2,520      B) Rs 4,480  
C) Rs 7,000      D) Rs 8,000

**Question 48:** M and N enter a partnership with capitals in the ratio 5 : 4. 10% of the profit goes to charity and the rest is divided in the ratio of investment. If M's share is Rs 900, find the total profit.

- A) Rs 1,620      B) Rs 1,800  
C) Rs 2,000      D) Rs 2,200

**Question 49:** A, B, and C invest Rs 20,000, Rs 25,000, and Rs 30,000. A is a working partner and gets 12.5% of the profit. The rest is divided among them. If A receives a total of Rs 5,200, find the total profit.

- A) Rs 12,000      B) Rs 14,000  
C) Rs 16,000      D) Rs 18,000

**Question 50:** P and Q share profits in the ratio 3 : 4. If P invested Rs 45,000, find the amount invested by Q.

- A) Rs 50,000      B) Rs 60,000  
C) Rs 75,000      D) Rs 80,000

**Question 51:** A and B started a business. A invested Rs 80,000 and B invested Rs 100,000. If A's share of the profit is Rs 3,200, find the total profit earned.

- A) Rs 4,000      B) Rs 5,600  
C) Rs 7,200      D) Rs 8,000

**Question 52:** Three partners X, Y, and Z share profits in the ratio 5 : 7 : 8. If Z's investment was Rs 16,000 more than X's investment, find Y's investment.

- A) Rs 28,000      B) Rs 35,000  
C) Rs 37,333      D) Rs 40,000

**Question 53:** The ratio of investments of A and B is 3 : 2. If A withdraws his money after 8 months and the profit is

shared in the ratio 4 : 3, for how many months did B invest?

- A) 6 months      B) 8 months  
C) 9 months      D) 12 months

**Question 54:** A, B, and C go on a picnic. A spends Rs 120, B spends Rs 150, and C spends Rs 210. If they share the total cost equally, who must pay whom?

- A) B pays Rs 30 to C  
B) A pays Rs 40 to C  
C) A pays Rs 20 and B pays Rs 20 to C  
D) A pays Rs 40 to B

**Question 55:** Four friends P, Q, R, and S share a dinner bill of Rs 1,200. P pays Rs 500, Q pays Rs 400, R pays Rs 200, and S pays Rs 100. To settle the account equally:

- A) R pays Rs 100 to P  
B) S pays Rs 200 to P  
C) R pays Rs 100 to Q and S pays Rs 200 to P  
D) S pays Rs 100 to Q and Rs 100 to P

**Question 56:** Three roommates share an electricity bill of Rs 900. Roommate A already paid Rs 500. Roommate B paid Rs 400. Roommate C paid Rs 0. How much does C owe to A and B respectively?

- A) Rs 300 to A, Rs 0 to B  
B) Rs 200 to A, Rs 100 to B  
C) Rs 150 to A, Rs 150 to B  
D) Rs 100 to A, Rs 200 to B

**Question 57:** What is the total profit earned by A and B at the end of the year? I. A and B started the business with investments in the ratio 3 : 5. II. B's share of the profit is Rs. 2,000 more than A's share.

- A) I alone is sufficient      B) II alone is sufficient  
C) Both together are sufficient      D) Neither is sufficient

**Question 58:** What is the ratio of investments of P and Q? I. P and Q share the profit in the ratio 3 : 2. II. P invested his capital for 8 months and Q invested for 6 months.

- A) I alone is sufficient      B) II alone is sufficient  
C) Both together are sufficient      D) Neither is sufficient

**Question 59:** How much did B invest in the business? I. A and B started the business with a total investment of Rs 50,000. II. A and B shared the profit in the ratio 2 : 3.

- A) I alone is sufficient      B) II alone is sufficient  
C) Both together are sufficient      D) Neither is sufficient

**Question 60:** After how many months did Y join X in the business? I. X started the business with Rs 20,000 and Y joined with Rs 30,000. II. At the end of the year, X's share of profit was equal to Y's share.

- A) I alone is sufficient      B) II alone is sufficient  
C) Both together are sufficient      D) Neither is sufficient