

1- A, B and C enter into a partnership. They invest Rs. 40,000, Rs. 80,000 and Rs. 1,20,000 respectively. At the end of the first year, B withdraws Rs. 40,000, while at the end of the second year, C withdraws Rs. 80,000. In what ratio will the profit be shared at the end of 3 years?

- **A.**2:3:4
- **B.**3:2:4
- **C.**3:2:1
- **D.**3:4:7
- **E.**None of these

Answer & Explanation

Answer - **D** (3:4:7)

Explanation - $A : B : C = (40000 \times 36) : (80000 \times 12 + 40000 \times 24)$

$$(120000 \times 24 + 40000 \times 12) = 144 : 192 : 336 = 3 : 4 : 7$$

2- Three partners A, B, C start a business. Twice A's capital is equal to thrice B's capital and B's capital is four times C's capital. Out of a total profit of Rs. 16,500 at the end of the year, B's share is:

- **A.**2000
- **B.**4000
- **C.**5000
- **D.**6000
- **E.**None of these

Answer & Explanation

Answer - **D** (6000)

Explanation - Let $C = a$. Then, $B = 4a$ and $2A = 3 \times 4a = 12a$ or $A = 6a$.

$$\therefore A : B : C = 6a : 4a : a = 6 : 4 : 1.$$

$$\text{So, B's capital} = \text{Rs. } [16500 \times 4/11] = \text{Rs. } 6000$$

3- A, B, C hired a car for Rs. 520 and used it for 7, 8 and 11 hours respectively. Hire charges paid by B were:

- **A.**160
- **B.**180
- **C.**220
- **D.**225

- **E.**None of these

Answer & Explanation

Answer - **A** (160)

Explanation - $A : B : C = 7 : 8 : 11$.

Hire charges paid by B = Rs. $[520 \times 8/26] = \text{Rs.}160$

4- David started a business investing Rs. 70,000. Robert joined him after six months with an amount of Rs. 1,05,000 and Sagar joined them with Rs. 1.4 lakhs after another six months. The amount of profit earned should be distributed in what ratio among David, Robert and Sagar respectively, 3 years after David started the business?

- **A.**12 : 10 : 16
- **B.**12 : 15 : 16
- **C.**15 : 12 : 16
- **D.**16 : 15 : 12
- **E.**None of these

Answer & Explanation

Answer - **B** (12 : 15 : 16)

Explanation - David : Robert : Sagar = $(70000 \times 36) : (105000 \times 30) : (140000 \times 24)$

= 12 : 15 : 16

5- C and D started a business investing Rs. 85,000 and Rs. 15,000 respectively. In what ratio the profit earned after 2 years be divided between P and Q respectively?

- **A.**10 : 3
- **B.**12 : 3
- **C.**17 : 3
- **D.**20 : 15
- **E.**None of these

Answer & Explanation

Answer - **C** (17 : 3)

Explanation - $C : D = 85000 : 15000 = 85 : 15 = 17 : 3$

6- 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.** 4 months
- **B.** 5 months
- **C.** 6 months
- **D.** 7 months
- **E.** None of these

Answer & Explanation

Answer - **B** (5)

Explanation - Suppose B joined after x months.

$$\text{Then, } 21000 \times 12 = 36000 \times (12 - x) \Leftrightarrow 36x = 180$$

$$\Leftrightarrow x = 5.$$

Hence, B joined after 5 months.

7- A, B and C started a shop by investing Rs. 27,000, Rs. 72,000 and Rs. 81,000 respectively. At the end of the year, the profits were distributed among them. If C's share of profit be Rs. 36,000, then the total profit was:

- **A.** 30000
- **B.** 60000
- **C.** 80000
- **D.** 120000
- **E.** None of these

Answer & Explanation

Answer - **C** (80000)

Explanation - $A : B : C = 27000 : 72000 : 81000 = 3 : 8 : 9$. so, C's share : Total Profit = 9 : 20.

Let the total profit be Rs. x. Then, $\frac{9}{20} = \frac{36000}{x}$ or x

$$= 36000 \times \frac{20}{9} = 80000.$$

8- X and Y invested in a business. They earned some profit which they divided in the ratio of 2 : 3. If X invested Rs. 40,000, the amount invested by Y is:

- A.35,000
- B.40,000
- C.50,000
- D.60,000
- E.None of these

Answer & Explanation

Answer - D (60,000)

Explanation - Suppose Y invested Rs. y.

Then, $40000/y = 2/3$ or y

$$= [40000 \times 3 / 2] = 60000.$$

9- A and B started a partnership business investing some amount in the ratio of 3:5. C joined them after six months with an amount equal to that of B. In what proportion should the profit at the end of one year be distributed among A, B and C?

- A.5 : 6 : 10
- B.6 : 10 : 5
- C.6 : 5 : 10
- D.10 : 6 : 5
- E.None of these

Answer & Explanation

Answer - B (6 : 10 : 5)

Explanation - Let the initial investments of A and B be 3a and 5a.

$$A : B : C = (3a \times 12) : (5a \times 12) : (5a \times 6) = 36 : 60 : 30 = 6 : 10 : 5.$$

10- A, B and C rent a pasture. A puts 10 oxen for 7 months, B puts 12 oxen for 5 months and C puts 15 oxen for 3 months for grazing. If the rent of the pasture is Rs. 175, how much must C pay as his share of rent?

- A.45
- B.50
- C.55
- D.65

- **E.**None of these

Answer & Explanation

Answer - **A** (45)

Explanation - $A : B : C = 10 \times 7 : 12 \times 5 : 15 \times 3$

$$= 70 : 60 : 45$$

$$= 14 : 12 : 9.$$

$$\therefore C's \text{ rent} = \text{Rs. } [175 \times 9/35] = \text{Rs. } 45.$$