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Q. 1 **A, B, 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] Rs. 45
- [B] Rs. 50
- [C] Rs. 55
- [D] Rs. 60

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Answer Option [A]

Explanation:

$$A : B : C = (10 \times 7) : (12 \times 5) : (15 \times 3) = 70 : 60 : 45 = 14 : 12 : 9.$$

$$\therefore \text{C's rent} = \text{Rs.} \left(175 \times \frac{9}{35} \right) = \text{Rs.} 45.$$

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Q. 2 **A and B entered into partnership with capitals in the ratio 4 : 5. After 3 months, A withdrew $\frac{1}{4}$ of his capital and B withdrew $\frac{1}{5}$ of his capital. The gain at the end of 10 months was Rs. 760. A's share in this profit is:**

- [A] Rs. 330
- [B] Rs. 360
- [C] Rs. 380
- [D] Rs. 430

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Answer Option [A]

Explanation:

$$A : B = \left[4x \times 3 + \left(4x - \frac{1}{4} \times 4x \right) \times 7 \right] : \left[5x \times 3 + \left(5x - \frac{1}{5} \times 5x \right) \times 7 \right]$$

$$= (12x + 21x) : (15x + 28x)$$
$$= 33x : 43x$$
$$= 33 : 43.$$

$$\therefore \text{A's share} = \text{Rs.} \left(760 \times \frac{33}{76} \right) = \text{Rs.} 330.$$

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Q. 3 **A starts business with Rs. 3500 and after 5 months, B joins with A as his partner. After a year, the profit is divided in the ratio 2 : 3. What is B's contribution in the capital?**

- [A] Rs. 7500
- [B] Rs. 8000
- [C] Rs. 8500
- [D] Rs. 9000

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Answer Option [D]

Explanation:

Let B's capital be Rs. x .

$$\text{Then,} \left(\frac{3500 \times 12}{7x} = \frac{2}{3} \right)$$

$$\Rightarrow 14x = 126000$$

$$\Rightarrow x = 9000.$$

- Q. 4 **Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit?**
- [A] Rs. 9,423
 [B] Rs. 10,250
 [C] Rs. 12,500
 [D] Rs. 10,500

Answer Option [D]

Explanation:

Simran : Nanda = $(50000 \times 36) : (80000 \times 30) = 3 : 4$.

- Q. 5 **A, B and C enter into a partnership in the ratio $\frac{7}{2} : \frac{4}{3} : \frac{6}{5}$. After 4 months, A increases his share 50%. If the total profit at the end of one year be Rs. 21,600, then B's share in the profit is:**
- [A] Rs. 2100
 [B] Rs. 2400
 [C] Rs. 3600
 [D] Rs. 4000

Answer Option [D]

Explanation:

$$\text{Ratio of initial investments} = \left(\frac{7}{2} : \frac{4}{3} : \frac{6}{5} \right) = 105 : 40 : 36.$$

Let the initial investments be $105x$, $40x$ and $36x$.

$$\therefore A : B : C = \left(105x \times 4 + \frac{150}{100} \times 105x \times 8 \right) : (40x \times 12) : (36x \times 12)$$

$$= 1680x : 480x : 432x = 35 : 10 : 9.$$

$$\text{Hence, B's share} = \text{Rs.} \left(21600 \times \frac{10}{54} \right) = \text{Rs.} 4000.$$

- Q. 6 **A began a business with Rs. 85,000. He was joined afterwards by B with Rs. 42,500. For how much period does B join, if the profits at the end of the year are divided in the ratio of 3 : 1?**
- [A] 4 months
 [B] 5 months
 [C] 6 months
 [D] 8 months

Answer Option [D]

Explanation:

Suppose B joined for x months. Then,

$$\text{Then,} \left(\frac{85000 \times 12}{42500 \times x} = \frac{3}{1} \right)$$

$$\Rightarrow x = \left(\frac{85000 \times 12}{42500 \times 3} \right) = 8.$$

So, B joined for 8 months.

Q. 7 **A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is:**

- [A] Rs. 1425
- [B] Rs. 1500
- [C] Rs. 1537.50
- [D] Rs. 1576

Answer Option [B]

Explanation:

Let the total profit be Rs. 100.

$$\text{After paying to charity, A's share} = \text{Rs.} \left(95 \times \frac{3}{5} \right) = \text{Rs.} 57.$$

If A's share is Rs. 57, total profit = Rs. 100.

$$\text{If A's share Rs. 855, total profit} = \left(\frac{100}{57} \times 855 \right) = 1500.$$

Q. 8 **A and B started a business in partnership investing Rs. 20,000 and Rs. 15,000 respectively. After six months, C joined them with Rs. 20,000. What will be B's share in total profit of Rs. 25,000 earned at the end of 2 years from the starting of the business?**

- [A] Rs. 7500
- [B] Rs. 9000
- [C] Rs. 9500
- [D] Rs. 10,000

Answer Option [A]

Explanation:

$$A : B : C = (20,000 \times 24) : (15,000 \times 24) : (20,000 \times 18) = 4 : 3 : 3.$$

$$\therefore \text{B's share} = \text{Rs.} \left(25000 \times \frac{3}{10} \right) = \text{Rs.} 7,500.$$

Q. 9 **A, B and C jointly thought of engaging themselves in a business venture. It was agreed that A would invest Rs. 6500 for 6 months, B, Rs. 8400 for 5 months and C, Rs. 10,000 for 3 months. A wants to be the working member for which, he was to receive 5% of the profits. The profit earned was Rs. 7400. Calculate the share of B in the profit.**

- [A] Rs. 1900
- [B] Rs. 2660
- [C] Rs. 2800
- [D] Rs. 2840

Answer Option [B]

Explanation:

For managing, A received = 5% of Rs. 7400 = Rs. 370.

Balance = Rs. (7400 - 370) = Rs. 7030.

Ratio of their investments = (6500 × 6) : (8400 × 5) : (10000 × 3)

$$= 39000 : 42000 : 30000$$

$$= 13 : 14 : 10$$

$$\therefore \text{B's share} = \text{Rs.} \left(7030 \times \frac{14}{37} \right) = \text{Rs.} 2660.$$

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Q. 10 **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] 5 : 7 : 8

[B] 20 : 49 : 64

[C] 38 : 28 : 21

[D] None of these

Answer Option [B]

Explanation:

Let their investments be Rs. x for 14 months, Rs. y for 8 months and Rs. z for 7 months respectively.

Then, $14x : 8y : 7z = 5 : 7 : 8$.

$$\text{Now, } \frac{14x}{8y} = \frac{5}{7} \Leftrightarrow 98x = 40y \Leftrightarrow y = \frac{49}{20}x$$

$$\text{And, } \frac{14x}{7z} = \frac{5}{8} \Leftrightarrow 112x = 35z \Leftrightarrow z = \frac{112}{35}x = \frac{16}{5}x.$$

$$\therefore x : y : z = x : \frac{49}{20}x : \frac{16}{5}x = 20 : 49 : 64.$$

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Q. 11 **Aman started a business investing Rs. 70,000. Rakhi 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 Aman, Rakhi and Sagar respectively, 3 years after Aman started the business?**

[A] 7 : 6 : 10

[B] 12 : 15 : 16

[C] 42 : 45 : 56

[D] Cannot be determined

Answer Option [B]

Explanation:

Aman : Rakhi : Sagar = $(70,000 \times 36) : (1,05,000 \times 30) : (1,40,000 \times 24) = 12 : 15 : 16$.

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Q. 12 **A, B, C subscribe Rs. 50,000 for a business. A subscribes Rs. 4000 more than B and B Rs. 5000 more than C. Out of a total profit of Rs. 35,000, A receives:**

[A] Rs. 8400

[B] Rs. 11,900

[C] Rs. 13,600

[D] Rs. 14,700

Answer Option [D]

Explanation:

Let $C = x$.

Then, $B = x + 5000$ and $A = x + 5000 + 4000 = x + 9000$.

So, $x + x + 5000 + x + 9000 = 50000$

$\Rightarrow 3x = 36000$

$\Rightarrow x = 12000$

$A : B : C = 21000 : 17000 : 12000 = 21 : 17 : 12$.

\therefore A's share = Rs. $\left(35000 \times \frac{21}{50} \right) = \text{Rs. } 14,700$.

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Q. 13 **A and B started a partnership business investing some amount in the ratio of 3 : 5. C joined then 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] 3 : 5 : 2

[B] 3 : 5 : 5

[C] 6 : 10 : 5

[D] Data inadequate

Answer Option [C]

Explanation:

Let the initial investments of A and B be $3x$ and $5x$.

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

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Q. 14 **Arun, Kamal and Vinay invested Rs. 8000, Rs. 4000 and Rs. 8000 respectively in a business. Arun left after six months. If after eight months, there was a gain of Rs. 4005, then what will be the share of Kamal?**

[A] Rs. 890

[B] Rs. 1335

[C] Rs. 1602

[D] Rs. 1780

Answer Option [A]

Explanation:

Arun : Kamal : Vinay = $(8,000 \times 6) : (4,000 \times 8) : (8,000 \times 8)$

= 48 : 32 : 64

= 3 : 2 : 4.

\therefore Kamal's share = Rs. $\left(4005 \times \frac{2}{9} \right) = \text{Rs. } 890$.

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