

**21-** 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
- **E.**None of these

#### Answer & Explanation

**Answer** - **B** (Rs 2660)

**Explanation** -

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

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

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

$$= 39000 : 42000 : 30000 = 13 : 14 : 10$$

$$\text{B's share} = \text{Rs. } 7030 \times \frac{14}{37} = \text{Rs. } 2660.$$

**22-** 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.**890
- **B.**1335
- **C.**1602
- **D.**1780
- **E.**None of these

**Answer & Explanation****Answer** - A (890)**Explanation** -

Arun : Kamal : Vinay =  $(8000 \times 6) : (4000 \times 8) : (8000 \times 8) = 48 : 32 : 64 = 3 : 2 : 4$ .

$$\text{Kamal's share} = \text{Rs. } 4005 \times \frac{2}{9} = \text{Rs. } 890.$$

**23-** A and B start a business with investments of Rs. 5000 and Rs. 4500 respectively. After 4 months, A takes out half of his capital. After two more months, B takes out one-third of his capital while C joins them with a capital of Rs. 7000. At the end of a year, they earn a profit of Rs. 5080. Find the share of each member in the profit?

- **A.** A - Rs. 1400, B - Rs. 1900, C - Rs. 1780
- **B.** A - Rs. 1600, B - Rs. 1800, C - Rs. 1680
- **C.** A - Rs. 1800, B - Rs. 1500, C - Rs. 1780
- **D.** A - Rs. 1680, B - Rs. 16000, C - Rs. 1800
- **E.** None of these

**Answer & Explanation****Answer** - B (A - Rs. 1600, B - Rs. 1800, C - Rs. 1680)**Explanation** -

A : B : C =  $(5000 \times 4 + 2500 \times 8) : (4500 \times 6 + 3000 \times 6) : (7000 \times 6)$

$$= 40000 : 45000 : 42000 = 40 : 45 : 42$$

$$\text{A's share} = \text{Rs. } 5080 \times \frac{40}{127} = \text{Rs. } 1600;$$

$$\text{B's share} = \text{Rs. } 5080 \times \frac{45}{127} = \text{Rs. } 1800;$$

$$\text{C's share} = \text{Rs. } 5080 \times \frac{42}{127} = \text{Rs. } 1680.$$

**24-** A, B and C enter into a partnership with a capital in which A's contribution is Rs. 10,000. If out of a total profit of Rs. 1000, A gets Rs.500 and B gets Rs. 300, then C's capital is:

- **A.**Rs. 4000
- **B.**Rs. 5000
- **C.**Rs. 6000
- **D.**Rs. 9000
- **E.**None of these

#### Answer & Explanation

**Answer** - **A** (Rs. 4000)

**Explanation** -

$$A : B : C = 500 : 300 : 200 = 5 : 3 : 2.$$

Let their capitals be  $5x$ ,  $3x$ ,  $2x$  respectively.

$$\text{Then, } 5x = 10000 \quad x = 2000.$$

$$\text{C's capital} = 2x = \text{Rs. } 4000.$$

**25-** Reena and shaloo are partners in a business. Reena invests Rs. 35,000 for 8 months and shaloo invests Rs. 42,000 for 10 months. Out of a profit of Rs. 31,570, Reena's share is:

- **A.**Rs. 9471
- **B.**Rs. 12628
- **C.**Rs. 18040
- **D.**Rs. 18942
- **E.**None of these

#### Answer & Explanation

**Answer** - **B** (Rs. 12628)

**Explanation** -

$$\text{Ratio of their shares} = (35000 \times 8) : (42000 \times 10) = 2 : 3.$$

$$\text{Reena's share} = \text{Rs. } 31570 \times \frac{2}{5} = \text{Rs. } 12628.$$

**26-** 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
- **E.**None of these

#### Answer & Explanation

**Answer** - **D** (Rs 9000)

**Explanation** -

Let B's capital be Rs.  $x$ . Then.

$$\frac{3500 \times 12}{7x} = \frac{2}{3} \quad 14x = 126000$$

$$x = 9000$$

**27-** Shekhar started a business investing Rs. 25,000 in 1999, In 2000, he invested an additional amount of Rs. 10,000 and Rajeev joined him with an amount of Rs. 35,000. In 2001, Shekhar invested another additional amount of Rs. 10,000 and Jatin joined them with an amount of Rs. 35,000. What will be Rajeev's share in the profit of Rs. 1,50,000 earned at the end of 3 years from the start of the business in 1999?

- **A.**Rs. 45,000
- **B.**Rs. 50,000
- **C.**Rs. 60,000
- **D.**Rs. 70,000
- **E.**None of these

#### Answer & Explanation

**Answer** - **B** (Rs. 50,000)

**Explanation** -

Shekhar : Rajeev : Jatin

$$= (25000 \times 12 + 35000 \times 12 + 45000 \times 12) : (35000 \times 24) : (35000 \times 12)$$

$$= 1260000 : 840000 : 420000 = 3 : 2 : 1$$

$$\text{Rajeev's share} = \text{Rs. } 150000 \times \frac{2}{3} = \text{Rs. } 50000.$$

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