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**11-** Manish started a business investing Rs. 45,000. After 3 months, Vibhor joined him with a capital of Rs. 60,000. After another 6 months, Vivek joined them with a capital of Rs. 90,000. At the end of the year, they made a profit of Rs. 16,500. Find the share of Vivek?

- A.3300
- B.4400
- C.5500
- D.6600
- E.None of these

#### Answer & Explanation

Answer - A (3300)

Explanation - Clearly, Manish invested his capital for 12 months, Vibhor for 9 months and Vivek for 3 months.

So, ratio of their capitals =  $(45000 \times 12) : (60000 \times 9) : (90000 \times 3)$ 

- = 540000 : 540000 : 270000 = 2:2:1.
- : Manish's share = Rs.  $[16500 \times 2/5] = Rs. 6600$ ;

Vibhors share = Rs.  $[16500 \times 2/5] = Rs. 6600$ ;

Vivek's share = Rs.  $[16500 \times 1/5] = Rs. 3300$ .

**12-** A and B are partners in a business. A contributes 1/4 of the capital for 15 months and B received 2/3 of the profit. For how long B's money was used?

- A.4 months
- B.6 months
- C.8 months
- D.10 months
- E.None of these

# Answer & Explanation

Answer - D (10 months)

Explanation - Let the total profit be Rs. z.

Then, B' share = Rs. 2z/3, A's share = Rs. [z - 2z/3] = Rs. z/3

$$\therefore$$
 A : B = z/3 : 2z/3 = 1 : 2.

Let the total capital be Rs. x and suppose B's money was used for a months. Then,

$$[1/4 \text{ a x } 15] / [3/4 \text{ a x y}] = 1/2$$

$$\Leftrightarrow$$
 y = [15 x 2 / 3] = 10.

Thus, B's money was used for 10 months.

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**13-** 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.7500
- B.9000
- C.9500
- D.10000
- E.None of these

### Answer & Explanation

Answer - A (7500)

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

B's share = Rs. 25000 x 
$$\frac{3}{10}$$
 = Rs. 7,500.

**14-** 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
- E.None of these

### Answer & Explanation

**Answer - C** (6:10:5)

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.

**15-** 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.7500
- B.8000
- C.8500
- D.9000
- E.None of these

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### Answer & Explanation

Answer - **D** (9000)

Explanation - Let B's capital be Rs. x.

Then, 
$$\frac{3500 \times 12}{7x} = \frac{2}{3}$$

14x = 126000

x = 9000.

**16-** A and B started a business with initial investments in the ratio 14: 15 and their annual profits were in the ratio 7: 6. If A invested the money for 10 months, for how many months did B invest his money?

- A.2 months
- B.4 months
- C.6 months
- D.8 months
- E.None of these

# Answer & Explanation

Answer - **D** (8 months)

Explanation - Suppose A invested Rs. 14a for 10 months and B invested Rs. 15a for b months. Then,

 $14a \times 10 / 15a \times b = 7/6 \Rightarrow b = 840 / 105 = 8$ 

Hence, B invested the money for 8 months.

**17-** 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.6000
- B.9000
- C.9500
- D.12000
- E.None of these

#### Answer & Explanation

Answer - **B** (9000)

Explanation - Let B's capital be Rs. a. Then,  $3500 \times 12 / 7a = 2/3 \Leftrightarrow 14a = 126000 \Leftrightarrow a = 9000$ .

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**18-** 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.8 months
- B.6 months
- C.4 months
- D.2 months
- E.None of these

## Answer & Explanation

Answer - A (8 months)

Explanation - Suppose B joined for a months. Then, 85000 x 12 / 42500 x a = 3/1

or  $a = 85000 \times 12 / 42500 \times 3 = 8$ .

So, B joined for 8 months.

**19-** Three partners A, B, C start 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.4000
- B.6500
- **C.**6600
- D.6000
- E.None of these

#### Answer & Explanation

Answer - **D** (6000)

Explanation -

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

A:B:C=
$$6x:4x:x=6:4:1$$

So B's capital = Rs. 
$$16500 \text{ x} \frac{4}{11} = \text{Rs. } 6000.$$

**20-** A started a business with Rs. 21,000 and is joined afterwars 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.6 months
- E.None of these

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# Answer & Explanation

Answer -  $\mathbf{C}$  (5 months) Explanation - Suppose B joined after x months Then, 21000 x 12 = 36000 x (12 - x) 36x = 180 x = 5 Hence, B joined after 5 months.

