Partnership Questions for Bank Clerk Pre Exams.

Partnership Quiz 4

Directions: Kindly study the following Questions carefully and choose the right answer:

1. Azad invested Rs 55000 in a cosmetic shop for the whole year. After 4 months of Azad, Hind joined him and invested Rs 70000. Next year Azad invested Rs 10000 more and Hind withdrew Rs 10000 and at the end of two years profit earned by Azad is Rs 32375. Find the total profit if they distributed half of the total profit equally and rest in the capital ratio.

A. Rs 89600 B. Rs 75600 C. Rs 52800 D. Rs 62900 E. None of these

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2. Mukul, Atul and Rahul started a business. Mukul invested 2/7th of the total investment and the total investment of Mukul and Atul is equals to the investment of Rahul. If they distributed profit in the capital ratio and Atul received Rs 1530, find the total profit.

A. Rs 6550 B. Rs 6920 C.Rs 7140 D. Rs 7350 E. Rs 7560

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3. X and Y invested the amount for a year in the ratio of 3:5. If the next year X invested 10% more money and Y took back 12% of his investment and X gets Rs. 3450 of the total profit. Find the total profit.

A. Rs. 8000 B. Rs. 8250 C. Rs. 8350 D. Rs. 8050 E. None of these

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4. Shubham invested Rs. 2250 in a business and after some time Shivam also join him and invested Rs. 2500. At the end of year Shivam received Rs. 2750 profit out of Rs. 6050. After how much time did he join the business?

A. 9 B. 6 C. 4 D. 8 E. None of these

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5. Suresh starts a business with Rs. 36000. After a certain period of time he is joind by Deepak, who invests Rs. 27000. At the end of the year they divide the profit in the ratio of 8 : 3. For what period did Deepak join Suresh ?

A. 7 months B. 8 months C. 11 months D. 10 months E. 6 months

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6. Priyanshi and Priyanshu enter into a partnership with their capital in the ratio of 5 : 13. At the end of 6 month, Priyanshu withdrew his capital. If they receive the profits in the ratio of 25 : 26 then find how long is Priyanshi's capital used.

A. 19 months B. 15 months C. 16 months D. 13 months E. None of these

7. Ram and Vinod start a business and invest Rs. 8000 and Rs. 16000 respectively. After 6 months, Ram doubles his investment and Vinod increases his investment by 50%. The business earns an annual profit of Rs. 6912 which is distributed between them. By what percentage is the profit earned by Vinod more than that earned by Ram?

A. 33.3% B. 66.6% C. 39% D. 50% E. None of these

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8. Abdul and Karim start a business by investing a cetain amount in the ratio 9 : 16. Both of them invest for an equal period of time. At the end of the term, Abdul's share of profit is what per cent less than that of Karim?

A. $62\frac{1}{2}$ B. 60 C. $55\frac{2}{3}$ D. $43\frac{3}{4}$ E. None of these

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9. Manohar and Natwar enter into a partnership with their capital in the ratio of 5 : 11. At the end of 10 month, Natwar withdrew his capital. If they receive the profits in the ratio of 10 : 11 then find how long is Manohar's capital used.

A. 19 months B. 12 months C. 16 months D. 13 months E. None of these

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10. A started a business with the capital of Rs. 12500 and after 4 months B joins A and invested Rs. 15000. They decided 40% of the total profit will be divided equally and remaining profit in the capital ratio. If A gets Rs. 2000 from the total profit, Find the total profit after one year.

A. Rs. 2750 B. Rs. 3250 C. Rs. 3500 D. Rs. 3750 E. None of these

Correct Answers:

1	2	3	4	5	6	7	8	9	10
D	C	D	E	E	B	B	D	E	D

Explanations:

1. Azad invested Rs 55000 for a year and Rs 65000 for the next year.
Hind invested Rs 70000 for 8 months and Rs 60000 for the next year.
Capital Ratio = 55000 × 12 + 65000 × 12 : 70000 × 8 + 60000 × 12
= 660000 + 780000 : 560000 + 720000
= 1440000 : 1280000 = 9 : 8
Let total profit = Rs x
Azad's profit = $x \times 50\% \times 50\% + x \times 50\% \times \frac{9}{17}$

$32375 = \frac{x}{4} + \frac{9x}{34}$

$32375 = \frac{35x}{68}$

x = 62900
Hence, option D is correct.

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2. Let the total investment = Rs x
Mukul's investment = $x \times \frac{2}{7}$

Rest investment = $x - x \times \frac{2}{7} = \frac{5x}{7}$
Let Atul's investment = Rs a, Rahul's investment = Rs b
Rahul's investment + Atul's investment = $\frac{5x}{7}$

$a + b = \frac{5x}{7}$

$b = \frac{5x}{7} - a$ ... 1

According to the question,

$\frac{2x}{7} + a = b$

$\frac{5x}{7} - a = \frac{2x}{7} + a$ (value of b is taken out from equation 1)

$\frac{5x}{7} - \frac{2x}{7} = a + a$

$\frac{3x}{7} = 2a$

$a = \frac{3x}{14}$ = Atul's investment

Rahul's investment = $x - \frac{3x}{14} - \frac{2x}{7}$

$= \frac{14x - 3x - 4x}{14}$

$= \frac{7x}{14} = \frac{x}{2}$

Investment Ratio,

Mukul : Atul : Rahul = $\frac{2x}{7} : \frac{3x}{14} : \frac{x}{2}$

= 4 : 3 : 7

As Atul's Profit = Rs.1530

Total profit = $\frac{1530}{3} \times 14$ = Rs 7140

Hence, option C is correct.

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3. Current Ratio = 3 : 5

Ratio of Next year = 3 × 110% **:** 5 × 88% = 3 : 4

A's Profit = Rs. 3450

Total Profit = 3450 ÷ 3 × 7 = Rs. 8050

Hence, option D is correct.

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4. Shubham's Profit = 6050 - 2750 = 3300 Rs.

Shivam's profit = 2750 Rs.

Ratio of the profit = 3300 : 2750

= 6 : 5

Because the ratio of the capital is equals to the ratio of the profit then,

2250 × 12 : 2500 × x = 6 : 5

5 (2250 × 12) = 6 (2500 × x)
x = 9 months
So Shivam invested after 3 months.
Hence, option E is correct.

5.

Ratio of profit = $\frac{\text{Capital of Suresh} \times \text{Time}}{\text{Capital of Deepak} \times \text{Time}}$

Let Deepak's investment be for x months.

Then, $\frac{8}{3} = \frac{36000 \times 12}{27000 \times x}$

or, $x = \frac{36000 \times 12 \times 3}{8 \times 27000} = 6$ months
Hence, option E is correct.

6. Suppose Priyanshi's capital was used for x months.

Now, $\frac{5 \times x}{13 \times 6} = \frac{25}{26}$

or, $26 \times 5x = 13 \times 6 \times 25$
or, $x = 15$ months
Therefore, Priyanshi's capital was used for 15 months.
Hence, option B is correct.

7. The profit is divided in the ratio of product of time and money
During first 6 months the time-money product is
Ram: 8000 × 6 = Rs. 48000
Vinod: 16000 × 6 = Rs. 96000
In the last 6 months the time money product is
Ram: 16000 × 6 = Rs. 96000
Vinod: 24000 × 6 = Rs.144000
Total money product is
Ram: Rs. 144000
Vinod: Rs. 240000
We have to find the percentage, so we don't need to find the exact profit
The time money product of Vinod is 96000 more than Ram
So the required percentage is $\frac{96000}{144000} \times 100 = 66.66\%$
Hence, option B s correct.

8.

Reqd. % = $\frac{16-9}{16} \times 100$

= $\frac{700}{16} = 43\frac{12}{16} = 43\frac{3}{4}$% less

Hence, option D is correct.

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9. Suppose Manohar's capital was used for x months.

Now, $\frac{5 \times x}{11 \times 10} = \frac{10}{11}$

or, $55x = 11 \times 10 \times 10$
or, $x = 20$ months
Therefore, Manohar's capital was used for 20 months.
Hence, option E is correct.

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10. Capital ratio = $12500 \times 12 : 15000 \times 8 = 5 : 4$
Let profit = x
40% of the total profit will be divided equally and 60% profit in the capital ratio.
So A's profit = $\frac{(x \times 40 \times 1)}{(100 \times 2)} + \frac{(x \times 60 \times 5)}{(100 \times 9)}$

$2000 = \frac{(x \times 40 \times 9 + x \times 60 \times 5 \times 2)}{(100 \times 2 \times 9)}$

$2000 \times 100 \times 18 = 360x + 600x$
$2000 \times 100 \times 18 = 960x$
x = Rs. 3750
Hence, option D is correct.