Quiz Date: 22nd March 2020

Q1. A started a business by investing some money and B invested Rs. 5000 more than that of A. A remained in business for 5 months and B remained in business for 1 month more than A. Out of the total profit of Rs. 26000, B got Rs. 6000 more than A. Find the capitals invested by A and B.
(a) Rs. 20,000, Rs. 25,000
(b) Rs. 25,000, Rs. 30,000
(c) Rs. 15,000, Rs. 10,000
(d) Rs. 15,000, Rs. 20,000
(e) None of these

Q2. A and B started a business in partnership by investing Rs 10,000 and Rs 4000 respectively. Condition of partnership is that B got Rs 100 per month for management of the business. Remaining profit has to be distributed in the ratio of their investments. Find the profit share of B, if the annual profit is Rs 4000.
(a) Rs 3000
(b) Rs 2500
(c) Rs 1500
(d) Rs 2000
(e) Rs 1800

Q3. A, B and C started a business in a partnership with investment of Rs 12000, Rs 26000 and Rs 32000 respectively. After 4 months A leaves. After 6 months of starting the business B leaves and A joins with an amount equal to his earlier investment. After 10 months of stating of business, C leaves and B joins with his prior investment. At the end of the year they earn a profit of Rs 53622. Find the share of B in the annual profit.
(a) Rs 17221
(b) Rs 17212
(c) Rs 17222
(d) Rs 18212
(e) Rs 24212

Q4. Three men A, B and C start a business together. They invest Rs 30000, Rs 24000 and Rs 42000 respectively in the beginning. After 4 months, B took out Rs 6000 and C took out Rs 10000. They get a profit of Rs 11960 at the end of the year. B's share in the profit is (approximately)
(a) Rs 2700
(b) Rs 2803
(c) Rs 2900
(d) Rs 2785
(e) Rs 3000

Q5. A, B and C enter into partnership with capital contribution with Rs. 25,000, 30,000 and 15,000 respectively. A is working partner and get 30% of profit for managing the business.
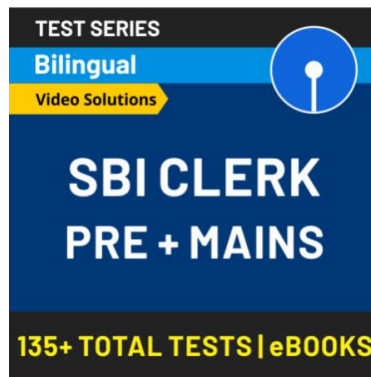
The remaining profit is distributed in the respect of capital. At the end of a year A gets Rs. 200 more than that of B & C together then total profit is :
(a) Rs. 2000
(b) Rs. 4000
(c) Rs. 3000
(d) Rs. 3750
(e) None of these

Directions (6-10): Find the wrong number in the following number series.
Q6.   3,   8,   27,   112,   560,   3396
(a) 8
(b) 560
(c) 27
(d) 3396
(e) 112

Q7.   1162,   1167,   1182,   1207,   1242,   1285
(a) 1167
(b) 1182
(c) 1285
(d) 1242
(e) 1207

Q8.   7,   29,   5,   31,   3,   33,   2
(a) 2
(b) 31
(c) 33
(d) 5
(e) 29

Q9.   223,   287,   359,   439,   529,   623
(a) 439
(b) 287
(c) 623
(d) 529
(e) 359

Q10. 2,   3,   11,   65 ,   519,   5190
(a) 3
(b) 5190
(c) 11
(d) 65
(e) 519

Q11. Suresh, Aman and Vikram are partners in a business. Suresh invested Rs. 4000 for whole year. Aman invested Rs. 6000 initially but increased this investment up to Rs. 8000 at the end of 4 months, while Vikram invested Rs, 8000 initially, but withdraw Rs. 2000 at the end of 9 months. At the end of year total earned profit is Rs. 16950, find their share of profit.
(a) Rs 3600, Rs 6600, Rs 6750
(b) Rs 2000, Rs 3050, Rs 5400
(c) Rs 2450, Rs 2460, Rs 1456
(d) Rs 2400, Rs 2480, Rs 1406
(e) None of these

Q12. A, B, C are business partners. A receives 2/7th of the total profit and B & C share the remaining profit equally. A's profit share is increased by Rs. 240 when the total profit rises from 10% to 15%. Find the profit received by A, B and C respectively?
(a) Rs. 4200, Rs. 6000, Rs. 6000
(b) Rs. 4800, Rs. 6000, Rs. 6000
(c) Rs. 4500, Rs. 5625, Rs. 5625
(d) Rs. 4000, Rs. 5000, Rs. 5000
(e) None of these

Q13. Ram, Veer and Virat invested Rs. 1250, (1250 + x) and (1250 + 2x) respectively in a business. After one year Divya joined them with the capital of Rs. 8x. If at the end of three years the profit of Divya is Rs. 12,000 out of total profit of Rs. 52,500, then find amount received by Virat, if he invested his initial investment's amount at the rate of 10% per annum at CI for three years ?
(a) Rs.1929.25
(b) Rs.2029.25
(c) Rs.2129.25
(d) Rs.2229.25
(e) Rs.2329.25

Directions(14-15): Raju, Rancho and Farhan entered into a business plan with their investments in the ratio 5 : 7 : 9 respectively. After 3 months, Raju withdraws his whole amount, Rancho withdraws half of his amount and Farhan triples his amount. After another 6 months, Farhan withdraws $\frac{8}{9}$ of his amount, Rancho doubles his amount and Raju re-enters into business with an amount equal to his initial amount.

Q14. The profit at the end of year is Rs 11737. If profit is shared among all of them in ratio of their investments, then the profit of Raju is how much less than that of Rancho?

(a) Rs 2861
(b) Rs 984
(c) Rs 1331
(d) Rs 4187
(e) Rs 3137

Q15. All of them maintain their amounts at the end of 1st year for another 12 months. What is the share of Rancho if the overall profit for only 2nd year is Rs. 22500?
(a) 10000
(b) 11250
(c) 9725
(d) 12050
(e) None of these

Solutions

S1. Ans.(d)
Sol.
Let amount invested by A = Rs x
A   :   B
Capital →   x   :   (x + 5000)
According to the question
Share of A in profit = $\frac{(26000-6000)}{2} = Rs\ 10,000$
Share of B in profit = (26000 – 10000)
= Rs 16,000
By using formulas: $\frac{C_1\ T_1}{C_2\ T_2} = \frac{P_1}{P_2}$
$\frac{x \times 5}{(x + 5000) \times 6} = \frac{10,000}{16,000}$
4x = 3x + 15000
x = Rs 15000
Required capital of A = Rs 15000
Required capital of B = (15,000+ 5000) = Rs 20,000

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S2. Ans.(d)
Sol.

Ratio of investments of A and B = 10,000: 4000
= 5: 2
Profit of A = $5x$
Profit of B = 2x + 12 × 100
A/q,
7x + 1200 = 4000
x = 400
Profit of A = 2000
Profit of B = 4000 – 2000 = 2000

S3. Ans.(b)
Sol.
(A's profit) : (B's profit) : (C's profit)
= (12,000 × 4 + 12,000 × 6) : (26,000 × 6 + 26,000 × 2) : (32,000 × 10)
= 12,000 × 10 : 26,000 × 8 : 32,000 × 10
= 15 : 26 : 40
∴ Share of B in total profit $= \dfrac{26}{15 + 26 + 40} \times 53622$
= Rs. 17,212

S4. Ans.(b)
Sol.
(A's profit) : (B's profit) : (C's profit)
= (30,000 × 12) : (24,000 × 4 + 18,000 × 8) : (42,000 × 4 + 32,000 × 8)
= 30 × 12 : (24 × 4 + 18 × 8) : (42 × 4 + 32 × 8)
= 45: 30 : 53
∴ B's profit $= \dfrac{30}{128} \times 11960$ = 2803.125
≈ 2,803 (approximately)

S5. Ans.(a)
Sol.

A : B : C
5 : 6 : 3 → 14
Let total profit = 100
⇒ profit shared = 70
⇒ Difference of profit between A & B + C = 55 – 45 = 10
& $10 \xrightarrow{\times 20} 200$
⇒ total profit = 100 × 20 = 2000 Rs.

S6. Ans.(b)
Sol.
Pattern is ×2+2, ×3+3, ×4+4, ×5+5, ×6+6
∴ Wrong term = 560 ≠ 112 × 5 + 5 = 565

S7. Ans.(c)
Sol.
Pattern is +5×1, +5×3, ×5+5, +5×7, ×5×9
∴ Wrong term = 1285 ≠ 1242 + 45 = 1287

S8. Ans.(a)
Sol.
Pattern is +22, −24, +26, −28, +30, -32

S9. Ans.(d)
Sol.
Series is
$15^2 – 2 = 223$
$17^2 - 2 = 287$
$19^2 – 2 = 359$
$21^2 – 2 = 439$
$23^2 - 2 = 527$
$25^2 – 2 = 623$
∴ wrong term = 529

S10. Ans.(b)
Sol.
Pattern is ×2- 1, ×4−1, ×6 − 1, ×8−1, ×10−1
∴ Wrong term = 5190 ≠ 519 × 10 − 1 = 5189

S11. Ans.(a)
Sol.

Suresh		Aman		Vikram
4000×12	:	6000×4+8×8000		8000×9+6000×3
48		24+64	:	72 + 18
48	:	88	:	90
24	:	44	:	45

Suresh's share = $\frac{24}{24+44+45} \times 16950$

$= \dfrac{24}{113} \times 16950$

$= 24 \times 150$

$= 3600$

Aman's Share $= \dfrac{44}{24+44+45} \times 16950$

$= 6600$

Vikram's Share $= \dfrac{45}{24+44+45} \times 16950$

$= 6750$

S12. Ans.(b)
Sol.
Let total profit be Rs x

A's profit share $= \dfrac{2}{7}x$

$\therefore$ B's profit share $= \dfrac{5}{14}x = c's$ profit share

A's share in total profit when profit is increased by 10%$=\dfrac{2}{7} \times \dfrac{110x}{100} = \dfrac{220x}{700}$

A's share in total profit when profit is increased by 15% $= \dfrac{2}{7} \times \dfrac{115x}{100} = \dfrac{230x}{700}$

ATQ

$\dfrac{230x}{700} - \dfrac{220x}{700} = 240 \Rightarrow$ x=Rs 16800

$\therefore$ profit share of A$=16{,}800 \times \dfrac{2}{7}$ =4,800

$\therefore$ profit share of B$=\left(\dfrac{16{,}800-4{,}800}{2}\right)$=6,000

$\therefore$ Capital invested by A, B & C = Rs. 4800, Rs. 6000, Rs. 6000

S13. Ans.(e)
Sol.
Profit ratio of Ram, Veer, Virat & Divya
= (1250×3):(1250 + x) ×3 : (1250 + 2x) ×3 : 8x × 2
= 3750: (3750 + 3x) : (3750 + 6x) : 16x
ATQ –

$\dfrac{16x}{3750+(3750+3x)+(3750+6x)} = \dfrac{12000}{(52500-12000)}$

$\dfrac{16x}{11250+9x} = \dfrac{12000}{40500}$

$\dfrac{16x}{11250+9x} = \dfrac{8}{27}$

54x – 9x = 11250

45x = 11250

x = 250

Amount invested by Virat = (1250 + 250×2)= Rs 1750

Rs. 1750

Required amount

$=1750 \times \left(1 + \dfrac{10}{100}\right)^3$

= 2329.25 Rs.

S14. Ans.(c)
Sol. required answer

$$\frac{(21-10)}{97} \times 11737 = 11 \times 121 = 1331 \text{ Rs}$$

S15. Ans.(e)
Sol.
Ratio of their amounts at the end of 1st year
= 5 : 7 : 3
Share of Rancho $= \frac{7}{15} \times 22500 = 7 \times 1500 = Rs\ 10500$

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