exercise 1A

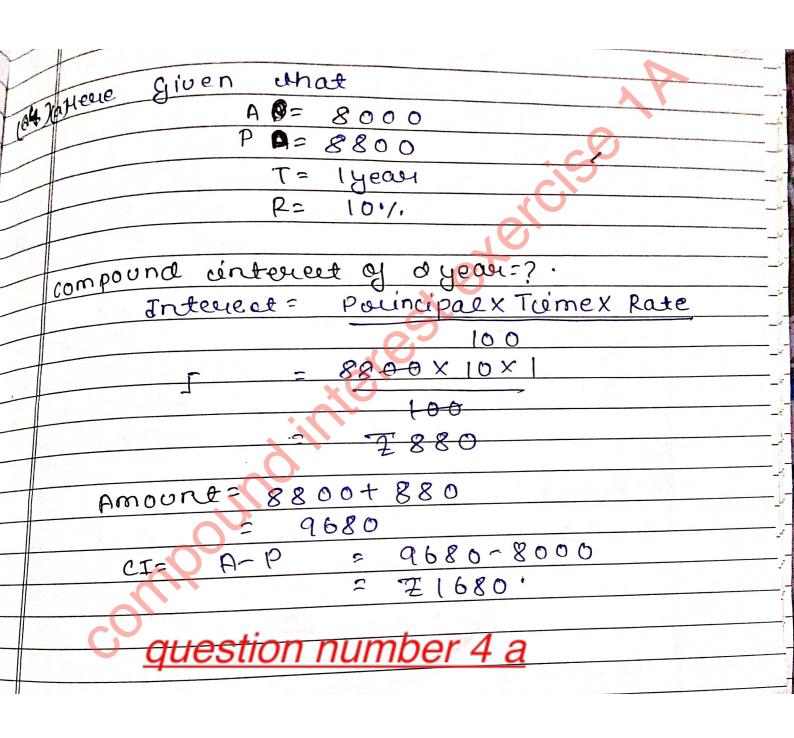
question number 3

Given: sum = ₹30,000, time = 3 years, intrest = 7½1/2 pa. CI.
To find: (i) sum at the end of second year, (ii) sum at
the end of third year, (iii) total intrest in three years.
Solution: (i) Intrest during first year = 30,000 × 1 × 15 [I = PXTXP]
= ₹2250.

Sum after first year = 30000 + 2250 = £ 32,250 [A=P+I]Now Intest during second year = $32,250 \times 1 \times 15 = 9675$ = £ 2418.75

... Sum after two years = 32,250 + 2418.75 = # 34668.75(ii) Intrest during third year = $34668.75 \times 1 \times 15 = 83205$ = 2600.16

Sum after three years = 34668.75 + 2600.16 = £ 37,268.91 (iii) Total intrest earned in 3 years = sum after 3 years - original sum = £ 37,268.91 - 30,000 = £ 7268.91. Answer! Hence values for (i) £ 34668.75, (ii) £ 37,268.91 and (iii) £ 7268.91



Interest jour 3 years 9680 x 10 x 1

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	_ 5	
	(a)	Here given that
1		P= 2500
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-		R= 10"/"
		CI = P[[1+ or] m
		[[[[[[[[[[[[[[[[[[[[
		CI=20500 [(1+10)2]
		$CI = 20500 \left((1 + \frac{100}{100})^2 \right)$
		= 72500× (110)2
		72500 X 118 X 118
-		1 × × 1 0 0
-	***	
		= 25 X 1 (X 1)
		= 7 3025
سهد		CIF A-P = 3025 - 2500
		3.3 0 0
٠		= 525.
	(b)	Here given that
~	O	P=2000/T= 3yeau, R=12/. p. a5/2.
		1/2 p. 0 5
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office of the second		SI: PRT
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SI = PRT

5a,b page 1

7750 Ans. 2507 525 a' bolas 5b, page 2

question number 8

Sol. Investment made by Mr Patel (P)

$$\therefore \text{ Interest for the first year} = \frac{PRT}{100}$$

= Rs.
$$\frac{80000 \times 10 \times 1}{100}$$
 = Rs. 8000

Principal for the second year = Rs. 88000 Interest for the second year

= Rs.
$$\frac{88000 \times 10 \times 1}{100}$$
 = Rs. 8800

= Rs. 16800 Investment made by Ms Kapoor

Interest for the first year =
$$\frac{PRT}{100}$$

Amount after first year = 100000 + 8000 = Rs. 108000 or Principal for the second year

Interest for the second year =
$$\frac{108000 \times 8 \times 1}{100}$$

8640 = Rs. 116640

or principal for the third year = Rs. 116640

Interest for the third year =
$$\frac{116640 \times 8 \times 1}{100}$$

It is clear that Ms Kapoor will get more interest = Rs. 25971.20

Sol. Investment by a man (P) = Rs. 30,000

Period = 2 years

Rate = 7.5% p.a. for first year and guestion

8% for the second year

Interest for the first year = PRTO 9

$$= \frac{30000 \times 15 \times 1}{100 \times 2} = Rs. 2250$$

- .. Amount after first year = P + Int.

 = Rs. 30000 + 2250 = Rs. 32250

 or principal for the second year = Rs. 32250

 Rate = 8%
- :. Interest for the second year = $\frac{32250 \times 8 \times 1}{100}$ = Rs. 2580
- ∴ Amount after second year = Rs. 32250 + 2580 = Rs. 34830

Investment by a man = Rs. 40000 Period = 3 years Rate for the first two years = 8% p.a.

question number. 10a

and for third year = 10%

Interest for the first year =
$$\frac{PRT}{100}$$

$$= Rs. \ \frac{40000 \times 8 \times 1}{100} = Rs. \ 3200$$

Amount after first year = P + Int. = Rs. 40000 + 3200 = Rs. 43200 or Principal for the second year = Rs. 43200

Interest for the second year =
$$\frac{43200 \times 8 \times 1}{100}$$

- = Rs. 3456
- : Amount after second year = Rs. 43200 + 3456 = Rs. 46656
 or principal for the third year = Rs. 46656

:. Interest for the third year =
$$\frac{46656 \times 10 \times 1}{100}$$

$$= Rs. \frac{466560}{100} = RS. 4665.60$$

∴ Amount after third year
 = Rs. 46656 + 4665.60 = Rs. 51321.60
 Total interest for 3 years = A - P
 = Rs. 51321.60 - 40000 = Rs. 11321.60

Given: A man Invested RS.40,000 for 3 years at the compound interest rate of 8 %. p.a. After 2 years, the scale of interest stailed to 10%. To find: the amount received after 3 years. Solution:

P= 40,000 Rs. 8= 8%.

Sum at the end of 2 years here n=2.

= 40,000 (1+8)

 $= 40000 \left(\frac{108}{100}\right)^2$

Abter 2 years, interest saised to 10%.

burn at the end of 3rd year. = P(1+2) P=46,656 71=1 8=10%

= 46656 (1+10)

5 A6656(110)

- 51,321.80.

Amount received after 3 years=RS. 51,321.60.

Answer:

Hence, the amount received after 10B 3 years U Rs 51,321.60.