'PERFECT'



· Practice:

- Find the compound interest on Rs. 10,000 in 2 years at 4% per annum, the interest being compounded halfyearly.
- 2. Find compound interest on Rs. 7500 at 4% per annum for 2 years, compounded annually.
- 3. In what time will Rs. 1000 become Rs. 1331 at 10% per annum compounded annually?
- 4. What will be the compound interest on a sum of Rs.25,000 after 3 years at the rate of 12 p.c.p.a?
- 5. A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest?

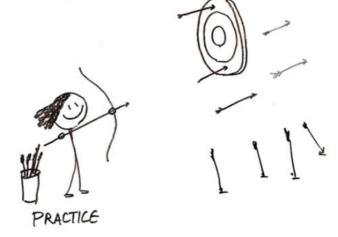






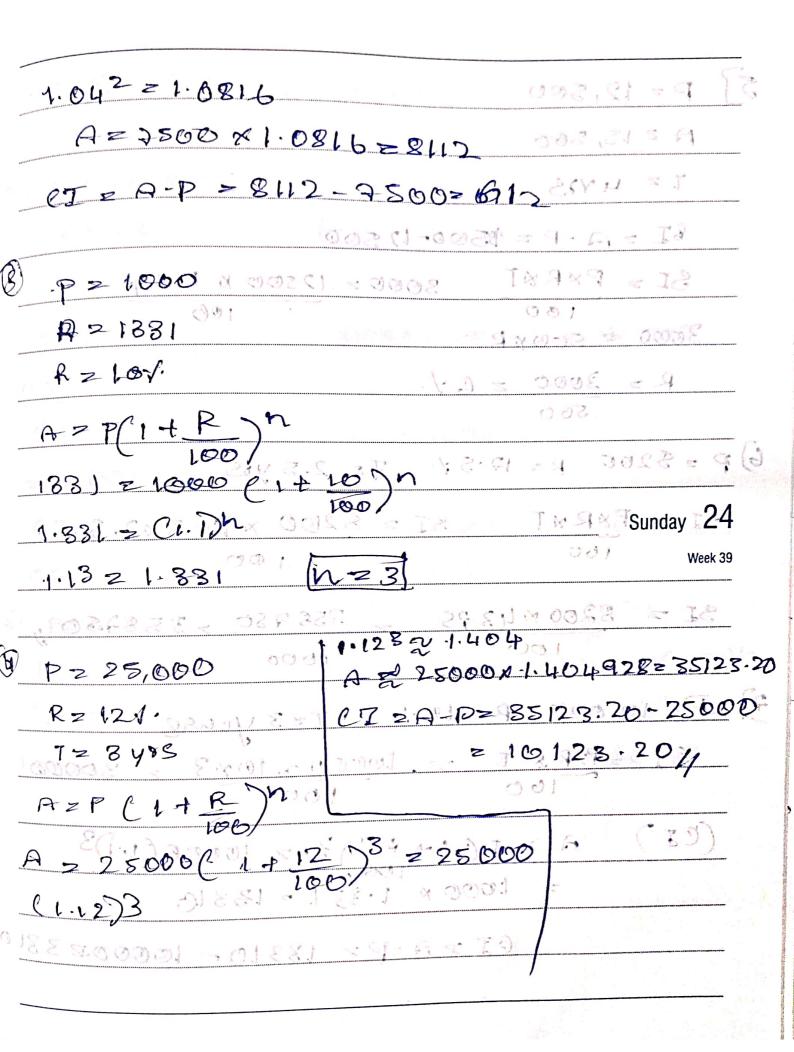
· Practice:

- 6. How much Simple Interest can a person get on Rs. 8,200 at 17.5% p.a. for a period of 2 years and 6 months?
- 7. If the principal amount to be 10000 invested in a bank for 3 years with a rate of interest of 10%. What will be the difference of SI & CI?
- 8. If the principal amount to be 20000 invested in a bank for 3 years with a rate of interest of 20%. What will be the difference of SI & CI?
- 9. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is:



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Problems 18/06/2005
) p = 10,000
Rzu1.
Compounded half-yearly
1=4.1./2 = 2/-
Time: 2 years, no of half years
AZPCITZT
A = 10000 (1+2)4 = 10000
(1.02)4 100)
1.02421.082432
A 26 10000 n 1.082432 = 10824.32
CIZA-P = 10824.82 - 10000 = 824.32
D P = 2500
R241.
722:
A = PC(+ R)P2
9 2 9500 / 1 4 4 T > DEMACLAIDE
A 2 9500 (14 4) T 2 7500 (1.04) 2



P= 12,500 A-215,500 8I = A-P= \$500-12500 SI = PXRXI 3000 × 12500 10 RX4 100 3000 = 500xR R = 3000 z 6 1. 500 6) P = 8200 R= 17.57. TZ 2.5, y85 SI = PXRXT SI = 8200 × 17.5 × 2.5 100 1881581 SI = 8200 × 43.75 5 _ 358750 z 358750 p P2 10,000 2 R2110:1- 1723 years 151 -9 2 60000 × 10×3 2 30000 CI) A Z PC (+ P) 3:2 10000 (1. D3 1000 × 1.33 L = 13316 CI > A - P = 18310 - 10000 2881

CI-SI = 3310-3000 = 310 8] P= 20,000 RZ 20% 723 8/2 PARNT = 20000 y 20x3 = 12000 (e]) Az P(1+ p) 220000 (1.2)3 220000 x 1.728 z 34560 (IZA-P>34560-20000=14560 CJ-8J = 14500-12000= 2560 A = P(1+ P)h 9) P230,000 34347= 30000 (1.02)4 RZJV 1.449 2 (1.03) n CI 2 4,842 AZP+CJ = 30000+4347 1.072 = 1. Ly Ly 2 34347