



Simple Intrest & compound J nterest (CP)  $S_n = \frac{2nK}{100} = 2ni \quad (:i = \frac{r}{100})$ Find the simple Int on RS. 2000 at 61/4% for annum for the Period of 3 years 2. what will be the portio of simple Interest econned by costains amount at the same reate of interest for byens & that of 9 years? <u>Sol:</u> <u>for bytes: 31:6Pr</u> <u>for ayrs: 51:9Pr</u> <u>loo</u> Ratio: 6:9 = 2:3





E EX3 RS. 800 becomes RS. 956 in 3 years at T' Per annum. If save of Interest Ased by 4% then how much RS. 800 becomes in 3 years. Sol: A = 800+ 800x3xr = 956 CA=P+I) 800×3×7 = 156 100 Now A = 800 + 800×3×(0+4) = 800 + 800 => 800+156+96 1052 If sum of money at SI doubles in 6 years, it will become 4 times in how many years?





 $\frac{1}{100} = A = P + \frac{PNN}{100} = 2P = P + P$ 3 PNR = p is 6 years.  $\frac{6rr}{100} = P = 10 = \frac{100}{6}$ Nao, X= +P= P+3r= P+PNE ·· (n=18) 5) The Present worth of RS. 169 due is 2 yours at 4% per annun company Interscet à  $\dot{A} = P\left(1 + \frac{r}{100}\right)n$  $169 = P(1+\frac{4}{100})^{2}$ P = 169 × 100 ×100 = 169 x 25 x25 \$ 156.25





The diff b/to the SIB CI on a cartain sum at 10% P.a for 2years is RS 250. Find the sun ? 501:-= P( 7/100) = 250 1 = 2 50 × 100 × 100 = 2500 ->Sum F) A sum of money becomes RS 13,380 after syons & 20,070 after 6yons on cI, then sum is ? Sol:-Amount in 3 years  $A = P(1+r)^3 = 13300$ Arraw is byperes  $k = P(1+\frac{y}{100})^6 = 20,000$  $\frac{(3)}{(1)} = 20,070$   $\frac{(1+r)^3}{100} = \frac{20,070}{13,800}$ P = 13,380 × 13,380 20.070 1= 8920





6 5) The diff the CI & SI on RS 1500 tors one yoon 12% P.a rackoned half yearing a . 501:-Diff blu SI & CI tos ayans Periodus = P( 7/100) 2 P (6)2 = 1500 x 6 x 6 100 100 => 5.40 RJ 9) The st on a costain sum of many too 4 yours at 12 > P.a is half the cz on Rs 5000 tor 3 years at 12% P.a . The own priced on SI > 2 PX4X12 = 5000 [(1+12)3-1 100 = 5000 [(1+12)3-1] -> 5000 - HHE 112×112 - 100 × 100×100 100× 100× 100 55000 (404928] X50 48 X100×1000 = 2109





3 19) The duff b/o SI at To 7 % P.a. CI at 9% P.a on a costain sum too exposes is RS. 1443 . Find the Sem .  $CI = P\left(\frac{109}{100}\right)^2 - I = PX [188]$ 100×100  $8I = P(2)(7) \times 100$ DH CI-SI Z P[ 1881 -1400  $100 \times 100$ P = 30,000, = 1443