ACBSE Coaching for Mathematics and Science

Class7 Chapter Simple interest Solved paper-1

- 1. In how much time will a sum become double of itself at 12.5% per annum simple interest?
- 2. A sum of money become $\frac{8}{5}$ of itself in 5 years at a creation rate of simple interest. Find the rate per cent
- 3. Karim deposit a sum of Rs. 9000 in a bank after 2 year he withdraw Rs 4000 and at the end of he received Rs.7640. Find the rate
- 4. Divide Rs 3000 into two parts so that the simple interest on the first part for 4 years at 8% per annum is equal to the simple interest on the second part for 2 years at 9% per annum.
- 5. Divide Rs 6000 into two parts so that the simple interest on the first part for 9 months at 12% per annum is equal to the simple interest on the second part for $1\frac{1}{2}$ years at 10% per annum.
- 6. Divide 3600 into two parts such that if one part be lent at 9% per annum and other at 10% per annum .The total annual income is Rs 333.
- 7. Minakshi deposited a sum of Rs 8000 in a bank. After one year she withdraws Rs 2000. At the end of 3yrs. She received Rs 7800. Find the rate?
- 8. Had and Ajit borrowed Rs 8000 and Rs 6250 respectively at same rate of interest for 3 years. If Had paid an interest of Rs 735 more than Ajit . Find the rate?
- 9. A merchant borrowed Rs 25000 from two money tenders. For one loan he paid 12% per annum simple interest and for the other he paid 14% per annum. The total interest paid by him in one year was Rs 3260. How much did he borrow at each rate?
- 10. Kanti borrowed some money from bank at 8% per annum simple interest and lent the entire Amount to Satish on the same day at 12% per annum after 3 years, He gained Rs 420. Find the sum.
- 11. The interest on a sum of money at the end of 5 years is $\frac{3}{5}$ th of the sum. Find the rate of interest,
- 12. A sum of money lent at sin-10e interest amount to Rs. 3224 in 2 year and Rs, 4160 in 5 year. Find the sum and the rate of interest.
- 13. Simple interest on a certain sum for 3 years at 8% per annum is Rs. 96 more than the SI on the same sum for 9% per annum .Find the sum.
- 14. At what rate per cent per annum SI will a sum double itself in 10 yrs?
- 15, x, y, z are three sums of money such that y is SI on x and z is the SI on y for same time and same rate. Find value of sum y $[ans: y = \sqrt{zx}]$

	7th sample acception (alanta)
Martin description of the second of the seco	7th sample acception Page No. Ch:-Simple Intoriest Date
1,	Lot P=0c, =) A = double = 2x, R= 12-54.
	A - P = 2x - x = x
	T = 51×100 = x/x+000 = 84.5. PXR
	PXR XX12154
2.	Let $P=x$, $A=8/5x$ $S1=\frac{8x}{5}-x=\frac{3x}{5}$
	T=Sym .: R = SIX100 = S
	$\frac{3\times \times 100}{5\times \times 5} = \frac{3\times \times 100}{5\times 5} = $
	= -x x 5 = 8x x x x
3.	Let sale = K.1., & for 24r = 9000.
	51 for zyr = 9000x2xR = 180R
	Ptor last 342 = 9000-4000 = 5000
	Pfor last 34x = 9000-4000 = 5000 51 for 34x = 5000 x 3 x R = 150 R
	190
	Money received at the end of 5th you
S. S	7640 = 5000 + 180R + 150R
	77640-5000 = 330R
Harry Consult	= 330R
	2) 264/08 = R
And Andrews	380 SR 28%
4.	letfret Part P. = 2 Seion part P = 3000-x
	T=4 yrs, R=8% T=2yrs, R=991.
	51 = xx4x8 -32x
	100 100 SI = (3000-x) xxx9
	$= \frac{8x}{25}$
	= (27000-92)
	50
	Alg SI on both parts are equal
	-9 8x - 27000 - 9x
	25 50
	$\Rightarrow x = 1080 : P_1 = 1080, P_2 = 1020$

A STATE OF THE STA	
6.	SI on first Part + SI on and part = 333
40914	$\times \times 1 \times 9$ (3600-2) $\times 1 \times 10$ = 333
	100 100
	= 9x + 36000 -10x = 333
	100
	o 9x + 36000 - 10x = 333
	100
	3 ->c + 36000 = 333×100 = 33300
	3 36000 - 33300 = >C
	3 2700 =x
	: 31 = 2700 , 82 = 3600 - 2700 = 900
7.	at sate of interest = R % P.a,
	Let sate of interest = R % p.a, SI for 1 yrs = 8000 × 1 × R = 80R Po-for last one = 2000
	Part tail
	-8000-2000 = 6000
	Po-for last 2413 = 8000-2000 = 6000 SI for & yors = 6000×2×R = 120R
273 - 15 - 15 - 15 - 15 - 15 - 15 - 15 - 1	
	Amount received at the end of 3rd yrs = 6000+80R
	$= 7800 = 6000 + 200R = R = \frac{2800}{200} = 14$
8.	
0	Let Rate = R.%.
	51 of Hari - 51 of April = 735
	$\frac{(8000 \times R \times 3)}{100} = \frac{(6250 \times R \times 3)}{100} = 735$
	100 / 100
	7 24,000 R - 18.750 R
	100 735
	3 5250 R = 735×100
	- 13 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \ 10 \
	R = 73500 = 5250 = 149.

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	Pege No:
	51 for 1st past + 51 for 2nd past = 3260
9.	$2 \times 12 \times 1 + (25000 - 21) \times 14 \times 1 = 3260$
	100 = 3260
	-) 12x + 350000 - 14x = 3260
	100
	→ -2x + 350000 = 326000
	7 350000 - 326000 = 2x
	$\frac{1}{3}$ $24,000 = 2 = x$
	7 P, 2 12000 P2 = 13000
10	
	/90
	SI Paid by satish = Px12x3 = 36P
	100 60
	Me gan = 36P - 24P = 420.
the Prime	
	7 12P = 420 => P = 420×100
7777	
	7 [P = 3500]
	×
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