

Simple Interest and Compound Interest for Railway Exams

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Simple Interest and Compound Interest for Railway NTPC Stage-I Exams

1) Find the Compound interest on a sum of Rs. 1000 for 2.5 years at the rate of 10% per annum?	4) If the compound interest earned at the rate of 13% per annum for 2 years is Rs 27.69% then find the	
a) 270.5	Principle?	
b) 300	a) 100	
c) 270	b) 10	
d) 250	c) 1000	
	d) 200	
2) Find the compound interest on the sum of Rs. 1200		
for 2 years at the rate of 8.5% per annum?	5) How much will a sum of 2500, invested at	
a) 200	compound interest, amount to in 1 year at 4% interest rate, interest compounded half-yearly	
b) 208.33	a) 2610	
c) 308.33	b) 2601	
d) None of these	c) 2656	
	d) 2600	
3) Find the Principle if the compound interest earned in 2 years at the rate of 8% per annum is Rs 1.664?	6) If the simple interest on a sum at the rate of 8% for 3.5 years per annum is 1680 then find the sum?	
a) 20	a) 470.4	
b) 10	b) 4800	
c) 30	c) 6000	
d) 100	d) 4040	



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7) If the Simple interest on a sum at the rate of 4%	d) 4.50%		
a) 808	11) Find the time taken by the sum to becomes 8 times of itself when rate being 4% per annum?		
b) 800	a) 175 years		
c) 990	b) 180 years		
d) 880	c) 190 years		
	d) 100 years		
8) If the same Principle was invested in two schemes A and B for the same term at the rate of 8% while	12) Find the rate per annum if the sum of 16 units grows to 30 units in 4 years at simple interest?		
interest in A was Simple interest and in B it was Compound interest then find the ratio between their	a) 21.875%		
interests?	b) 33.5%		
a) 1 : 1	c) 25.5%		
b) 2 : 3	d) None of these		
c) 3 : 2d) Cannot be determined	13) Find the amount when simple interest earned on a sum for 2 years at the rate of 5% per annum is Rs. 140?		
9) If the Compound interest on a sum is Rs.840 at the rate of 10% for two years then find the simple interest on same sum for same parameters?	a) 1546		
a) 800	b) 1450		
a) 300	c) 1500		
c) 1200	d) 1540		
d) 1500	14) A sum of money lent out at the simple interest amount to Rs. 720 after 2 years and to Rs. 1020 after a further period of 5 years. The sum is ;		
10) Find the rate per annum when the interest for 4 years is 4/7 times of the sum invested initially?	a) 520		
a) 3%	b) 500		
b) 2.04%	c) 420		
c) 3.50%	d) 320		

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15) In how many years Rs. 150 will produce the same interest @ 8% as Rs. 800 produce in 3 years @ 4.5%?	19) How long will it take a sum of money invested at 6% to grow its value by 48%?
a) 9 years	a) 4 years
b) 10 years	b) 6 years
c) 5 years	c) 5 years
d) 6 years	d) 8 years
 16) In how much time would the simple interest on a certain sum be 0.125 times the principle at 10% per annum? a) 2.5 years b) 1.5 years c) 2 years d) 1.25 years 	 20) If a sum of money at simple interest doubles in 5 years , it will becomes 6 times in ; a) 20 years b) 25 years c) 15 years d) 30 years
17) If the simple interest is 6/7 times of the principle for 3 years then find the rate of interest per annum?	21) At what rate of simple interest will a money double itself in 10 years?
a) 25.87%	a) 20%
b) 28.57%	b) 10%
c) 32.57%	c) 5%
d) 38.57%	d) 15%
18) The rate at which a sum becomes four times of itself in 10 years at simple interest will be;	22) If the invested sum and time in scheme A and B i same, and rate being 4% and 5% per annum then
a) 15%	find the ratio between the simple interest earned?
b) 25%	a) 4 : 5
c) 30%	b) 5 : 4
d) 35%	c) 2 : 3
	d) 16 : 25
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23) At what rate percent per annum will a sum of money double in 16 years?	c) 1625		
a) 6 25%	d) 1565		
a) 0.25%			
b) 12.5%	27) A sum was putted at the rate of x% for 2 years		
c) 8.5%	earns some simple interest had it putted for $(x + 3)$ %		
d) 4.5%	then find the sum?		
	a) 200		
24) The simple interest on the sum is 4/9 times of the principle, find the rate per annum if rate and time	b) 2000		
both are numerically equal?	c) 20000		
a) 9.9	d) 1000		
b) 3.5			
c) 6.6	28) A sum was putted at the rate of x% for 3 years		
d) 13.13	earns some simple interest had it putted for $(x + 3)$ % for 3 years then the interest would be Rs. 180 more then find the sum?		
25) Find the simple interest on Rs. 68.000 at $16(2/3)\%$	a) 1000		
per annum for 6 months?	b) 2000		
a) 5666.67	c) 1500		
b) 5888.7	d) None of these		
c) 5662			
d) None of these	29) A sum was putted at the rate of x % for 3.5 years earns some simple interest had it putted for $(x + 2)$ % for 3.5 years then the interest would be Rs. 140 more		
26) A sum amounts to Rs. 2502.50 at 13(1/2)% per	then find the sum?		
annum for simple interest in 4 years then find the sum invested?	a) 2100		
a) 1600	b) 1500		
b) 1500	c) 1400		
	d) 2000		
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30) A sum was putted at the rate of $(x + 1.5)$ % for 2 years earns some simple interest had it putted for x%	34) Find the compound interest on Rs. 15,625 for 6 months at 16% per annum compounded quarterly?		
find the sum?	a) 1575		
a) 1500	b) 1275		
b) 1000	c) 1475		
c) 2000	d) 1375		
d) 2500	35) If the compound interest on a sum for 2 years at 12.5% per annum is Rs. 510 , the simple interest on		
31) A sum was putted at the rate of $(2x + 1.5)\%$ for 2 years earns some simple interest had it putted for	the same sum at the same rate for the same period of time is ;		
2x% for 2 years then the interest would be Rs. 30 less then find the initial amount?	a) 520		
a) Rs. 500	b) 420		
b) Rs. 1000	c) 480		
c) Rs. 375	d) 120		
d) Cannot be determined	36) The simple interest on a certain sum of money for3 years at 8% per annum is half the compound		
32) The compound interest on Rs. 30,000 @ 7% per annum is Rs. 4347.The term in years will be ;	interest on Rs. 4000 for 2 years @ 10% per annum. The sum placed on the simple interest is;		
a) 1 years	a) 1750		
b) 2 years	b) 2750		
c) 3 years	c) 2875		
d) 4 years	d) 2975		
33) What will be the difference in the Ci and Si on the sum of rupees 10,500 at the rate of 3% for 2 years?	37) There is 30% increase in the value of sum invested at 3% per annum at simple interest. Find the		
a) 9.45/-	simple interest earned on 15,000 for the same time at 2% per annum?		
b) 0	a) 4000		
c) 9 /-	b) 5000		
d) 10 /-	c) 3000		

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d) None of these	42) Find the Compound interest on the sum of Rs. 800 for $1(2/5)$ years at 10% per annum?		
38) Find the simple interest on Rs. 20480 at 6.25% per annum for 2.5 years?	a) Rs. 135.2		
a) 3800	b) Rs. 115.2		
b) 6400	c) Rs. 145.2		
c) 1600	d) Rs. 165.2		
d) 3200	43) A sum of money becomes 1296 in 2 years and 1600 in 4 years then find the Effective rate for 2 years?		
39) Find the difference between Ci & Si on the sum of P g 5000 for 2 years at 10% per annum?	a) 10%		
Rs. 5000 for 2 years at 10% per annum:	b) 9(1/11)%		
a) Rs. 5	c) 11(1/9)%		
c) $\mathbf{Rs} 0$	d) 12%		
d) Rs. 50			
	44) A sum of money becomes 441 in 2 years and 576 in 4 years then find the Effective rate of 2 years?		
40) Find the difference between Ci & Si on the sum of Rs. 15000 for 2.5 years at 10% per annum?	a) 19.23%		
a) 307.5	b) 25%		
b) 407.5	c) 17.31%		
c) 807.5	d) Cannot be determined		
d) None of these			
41) Find the Compound interest on the sum of Rs. 6000 for 2(2/3) years at 9% per annum?	45) A sum of money becomes 343 in 2 years and 729 in 5 years then find the Effective rate of 3 years?		
a) 1556.31	a) 14.91%		
b) 1500.31	b) 14.27%		
c) 1456.31	c) 28.57%		
d) 1356.31	d) Cannot be determined		
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b) 18.75%
 d) Cannot be determined 49) If the ratio of Si to Ci is 300 : 321 while all the parameters being same then find the rate of interest for per annum? a) 14.5%
 b) 21% c) 7% d) 14%
50) Find the Si for the same sum and rate but for three years if the Ci on a sum for 2 years at the rate of 11(1/9)% is 95 rupees?
a) 135/-
 b) 235/- c) 335/- d) 435/-

ANSWERS

1) Answer: A	Interest on first	Interest on second	Interest on third		
	year	year	year		
Solution:	100	100	100		
$\mathbf{Principle} = 1000$		10	10		
Principle = 1000			10		
Rate = 10%			1		
Time = 2.5 years	Since we have $T = 2.5$ years				
	Since we have $1 = 2.5$ years.				
Let principle = 1000	So we will take half interest of 3 rd year.				

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Compound Interest = $100 + 110 + 60.5$		4) Answer: A			
Compound Interest = 270.5		Solution:			
2) Answer: B		Princ	ciple = 100%		
Solution:		Rate	= 13%		
8.5% = 1/12		Time	e = 2 years		
Let Principle = 144		Com	pound Interest = Rs 27	7.69%	
1 st year interest	2 nd year interest	Effe	ctive rate for 2 years =	$13 + 13 + 13 \times 13/100$	
12	12	Effe	ctive rate = 27.69%		
	1	27.6	9% = 27.69%		
Compound Interest =	25 units	1% =	= 1 rupees		
Principle = 144 units	= 1200	100%	100% = 100		
1 unit = $25/3$ rupees		5) Answer: B			
Compound Interest =	625/3	Solution:			
Compound Interest =	208.33	P = 2500			
3) Answer: B		R = 4% per annum=2% per half-yearly			
Solution:		T =1 year= 2 half year			
Principle = 100%			Interest on first	Interest in second year	
Rate = 8%			50	50	
Time $= 2$ years				1	
Compound Interest = Rs 1.664					
Effective rate for 2 years = $8 + 8 + 8 \times 8/100$		Compound Interest = $50+50+1=101$			
Effective rate = 16.64%		Amount=P+CI=2500+101=2601			
16.64% = 1.664		6) Answer: C			
1% = 0.1 rupees		Solution:			
100% = 10		S.I= 1680			

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Rate = 8%			This question cannot be solved because time is not given in the question because the interest will be varied with			
Time = 3.5 years			time.			
Simple Interest = $(P \times R \times T)/100$			9) Answer: A			
1680= (P×8	8×3.5)/100			Solution: Let $P = 100\%$ $R = 10\%$ $T = 2$		
P = 6000				years		
7) Answer:	D			Effective rate = $10 + 10 + 10 \times 10/100$		
Solution:				Effective rate = 21%		
Amount =	?			21% = Rs. 840		
Principle =	?			1% = Rs. 40		
Simple Inte	erest = 80			100% = 4000		
Rate = 4%				Simple Interest = $(P \times R \times T)/100$		
Time = 2.5	years			Simple Interest = $(4000 \times 10 \times 2)/100$		
Simple Interest = $(P \times R \times T)/100$			Si = 800/-			
$80 = (p \times 4 \times 2.5)/100$			10) Answer: B			
P = 800			Solution: Time = 4 years Let $P = 7$ units			
A = P + SI			$S_1 = 1$ unit/year			
Amount = 8	800 + 80 = 880	C		Si = $(P \times R \times T)/100$ 1 = $(7 \times R \times 7)/100$		
8) Answer:	D					
Solution:				Rate = 2.04%		
	А	В		11) Answer: A		
Р	р	р		Solution: Time =?Rate = 4%Let $P = 1$ units $A = 8$ units.		
Rate	8	8		Simple Interest = 7 units		
Time	Т	Т		Simple Interest = $(P \times R \times T)/100$		
Interest	CI	SI		$7 = (1 \times 4 \times T)/100$		
				T = 175 years		

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12) Answer: A				P = 520	
Solution: Let $p = 16$ units $T = 4$ years $A = 30$ units			15) Answer: A Solution:		
Si = 14 units				P = 150 Rate = 8% T =?	
Simple Interest = (P	$\times R \times T)/100$			Simple Interest = $(P \times R \times T)/100$	
$14 = (16 \times \mathbf{R} \times 4)/10$	00			Simple Interest = $(150 \times 8 \times T)/100(1)$	
Rate = 21.875%				Now, $P = 800/-$ Rate = 4.5% $T = 3$	
13) Answer: D				Simple Interest = $(800 \times 4.5 \times 3)/100$	
Solution:				Simple Interest = 108	
A =? Rate = 5%	T = 2	2 years	Si =	From eq (1)	
140				$(108 \times 100)/(150 \times 8) = T$	
Simple Interest = (P	$(\times \mathbf{R} \times \mathbf{T})/100$			T = 9 years	
$140 = (\mathbf{P} \times 5 \times 2)/10$	00			16) Answer: D	
P = 1400				Solution: 0.125 = 1/8 units	
A = P + Si				Let $P = 8$ unit and $Si = 1$ unit	
A = 1400 + 140				$1 = (10 \times 8 \times T)/100$	
A = 1540				T = 1.25 years	
14) Answer: A				17) Answer: B	
Solution:				Solution: Let $P = 7$ unit and $Si = 6$ unit	
Р	(Si) ₂	(Si) ₅		Time = 3 years	
Р	720	1020		$6 = (7 \times 3 \times r)/100$	
$(Si)_3 = 1020 - 720$				Rate = 28.57%	
$(Si)_3 = 300$				18) Answer: C	
Simple Interest = 30	00/3 = Rs. 100	per year		Solution: $T = 10$ years	
A = 720			Let $p = 1$ unit		
Si = 200				1	

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A = 4 units	A = 2 units
Si = 3 units	Si = 1 unit
Si =(P × R × T)/100	$Si = (P \times R \times T)/100$
$3 = (1 \times R \times 10)/100$	$1 = (1 \times \mathbf{R} \times 10)/100$
Rate = 30%	Rate = 10%
19) Answer: D	22) Answer: A
Solution: Rate = 6%	Solution:
Let p = 100%	A B
Si = 48%	P p p
48 =(100 × 6 × T)/100	Rate 4 5
Time = 8 years	Time T T
20) Answer: B	Interest Si Si
Solution: Let $p = 1$ unit	
A = 2 units	Interest ratio of $A : B = 4 : 5$
Si = 1 units	23) Answer: A
$1 = (1 \times 5 \times R)/100$	Solution: Let $p = 1$ unit
Rate = 20%	A = 2 units
Now, to make it 6 times,	Si = 1 unit
P = 1 unit	$Si = (P \times R \times T)/100$
Si = 5 units	$1 = (1 \times \mathbf{R} \times 16)/100$
Rate = 20%	Rate = 6.25%
$5 = (1 \times 20 \times t)/100$	24) Answer: C
Time = 25 years.	Solution: Let $p = 9$ unit
21) Answer: B	A = 13 units
Solution: Let $p = 1$ unit	Si = 4 unit

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$Si = (P \times R \times T)/100$	100% = 2000
$4 = (9 \times \mathbf{R} \times \mathbf{R})/100$	28) Answer: B
Rate = 6.6%	Solution:
25) Answer: A	Let Principle = 100%
Solution:	Extra rate = 3%
p = 68,000/- $R = 16(2/3)%$ $T = 6$ months	Extra rate for 3 years = $3 \times 3 = 9\%$
Si =(P × R × T)/100	$9\% = \text{Rs.}\ 180$
SI =(68000 × 1 × 6)/(6 × 12)	1% = Rs. 20
Si = 5666.67/-	100% = 2000
26) Answer: C	29) Answer: D
Solution:	Solution:
Let Principle = 100%	Let Principle = 100%
$Si = 13.5\% \times 4$	Extra rate = 2%
Si = 54% of principle	Extra rate for 3.5 years = $3.5 \times 2 = 7\%$
Amount = Principle + Simple Interest	7% = Rs. 140
Amount = 154%	$1\% = \text{Rs.}\ 20$
154% = 2502.50	100% = 2000
100% = Rs. 1625	30) Answer: C
27) Answer: B	Solution:
Solution:	Let Principle = 100%
Let Principle = 100%	Extra rate = 1.5%
Extra rate = 3%	Extra rate for 2 years = $1.5 \times 2 = 3\%$
Extra rate for 2 years = $3 \times 2 = 6\%$	$3\% = \text{Rs.}\ 60$
6% = Rs. 120	$1\% = \text{Rs.}\ 20$
1% = Rs. 20	100% = 2000

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31) Answer: B	Solution:	
Solution: Let Principle = 100%	P = 15,625 R = 4%	T = 2 years
Extra rate = 1.5%	4% = 1/25	
Extra rate for 2 years = $1.5 \times 2 = 3\%$	Let principle = 625 units	
3% = Rs. 30		625
$1\% = \text{Rs.}\ 10$	1 st year	2 nd year
100% = 1000	25	25
32) Answer: B		1
Solution: P = 30,000/- Rate = 7% Ci =	Ci = 51 units	
4347/-	625 units = Rs 15,625	
Effective Rate = $(4347/30,000) \times 100$	1 unit = Rs. 25	
Effective rate = 14.49%	$Ci = 51 \times 25$	
We know that effective rate of 7% for time = 2 years is 14.49%	Ci = Rs. 1275	
Time $= 2$ years.	35) Answer: C	
33) Answer: A	Solution: Rate = $12.5\% = 1/8$	
Solution:	Р	А
Solution: $P = 10,500$ $R = 3\%$ $T = 2$ years	P 8	A 9
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$	P 8 8	A 9 9
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/-	P 8 8 64	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$	P 8 8 64 Compound Interest = A - P	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$ Effective rate = 6.09%	P 8 8 64 Compound Interest = A - P Compound Interest = 17 units	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$ Effective rate = 6.09% Ci = 6.09% of 10,500	P 8 8 64 Compound Interest = A - P Compound Interest = 17 units 17 units = 510	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$ Effective rate = 6.09% Ci = 6.09% of 10,500 Ci = 639.45	P 8 8 64 Compound Interest = A - P Compound Interest = 17 units 17 units = 510 1 unit = 30	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$ Effective rate = 6.09% Ci = 6.09% of 10,500 Ci = 639.45 Difference = 9.45	P 8 8 64 Compound Interest = A - P Compound Interest = 17 units 17 units = 510 1 unit = 30 P = 64 units	A 9 9 81
Solution: P = 10,500 $R = 3%$ $T = 2$ years $Si = (P \times R \times T)/100$ Si = 630/- Effective rate = $3 + 3 + 3 \times 3/100$ Effective rate = 6.09% Ci = 6.09% of 10,500 Ci = 639.45 Difference = 9.45 34) Answer: B	P 8 8 64 Compound Interest = A - P Compound Interest = 17 units 17 units = 510 1 unit = 30 P = 64 units P = 64 \times 30	A 9 81



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P = 1920	38) Answer: D			
Simple Interest = $(1920 \times 12.5 \times 2)/100$	Solution:			
Simple Interest = $Rs. 480$	P = 20480 $R = 6.25%$ $T = 2.5$ years			
36) Answer: A	Simple Interest = $(P \times R \times T)/100$			
Solution:	Simple Interest = $(20,480 \times 6.25 \times 2.5)/100$			
$P = Rs.4000 \qquad T = 2 \text{ years} \qquad R = 10\% \text{ per}$	Simple Interest = 3200			
	39) Answer: D			
Effective rate = 21%	Solution: $P = 5000$ $R = 10\%$ $T = 2$ years			
Compound Interest = 21% of 4000	Simple Interest = $(P \times R \times T)/100$			
Compound Interest = Rs. 840	Simple Interest = $(5000 \times 10 \times 2)/100$			
Simple Interest = $0.5 \times \text{Compound Interest}$	Simple Interest = 1000			
Simple Interest = $Rs. 420$	Effective rate = $10 + 10 + 10 \times 10 / 100$			
Simple Interest = $(P \times R \times T)/100$	Effective rate = 21%			
$420 = (P \times 3 \times 8)/100$	$C_i = 21\%$ of 5000			
P = Rs. 1750	$C_{i} = 1050/$			
37) Answer: C	Ci = 1050/2			
Solution:	10 10 10			
Let $P = 100\%$ R = 3 % Si = 30% t =?	40) Answer: A			
Simple Interest = $(P \times R \times T)/100$	Solution: 15000			
$30 = (100 \times 3 \times T)/100$	1 st year 2 nd year 3 nd year			
Time $= 10$ years	1500 1500 1500			
Now. $P = 15.000/-R = 2\%$ $T = 10$ years	150 150			
Simple Interest = $(\mathbf{P} \times \mathbf{R} \times \mathbf{T})/100$	150			
Simple Interest = $(1 \times 1 \times 1)/100$	15			
Simple Interest = $(15000 \times 2 \times 10)/100$	Sifer 2.5 man 1 st and (ard (a)			
Simple Interest = 3000	Si for 2.5 years = 1^{-5} year + 2^{-6} year + (3^{-6} year/2)			

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Si for 2.5 years = 3750	Compound Interest = 14.40% of 800			
Ci for 2.5 years = 1^{st} year + 2^{nd} year + $(3^{rd}$ year/2)	Compound Interest = Rs. 115.2			
Ci for 2.5 years = 4057.5	43) Answer: C			
Difference = $Rs. 307.5$	Solution:			
41) Answer: A	Р	A_2	A_4	
Solution:	Р	√1296	√1600	
P = 6000		36	40	
Rate = 9%		9	10	
Time = $2(2/3)$ years	Compound Interest = $10 - 9 = 1$ units			
Rates: 1 st year - 9%	Rate = $(1/9) \times 100$			
2 nd year - 9%	Rate = $11(1/9)$ %			
3^{rd} year - 6%	44) Answer: A			
Effective rate = $R_1 + R_2 + R_3 + (R_1 \times R_2 \times R_3)/10000$ + $(R_1R_2 + R_3R_2 + R_3R_1)/100$ (1)	Solution:	٨	٨	
Effective rate = 25.93%	r D	A_2	A4	
Ci = 25.93% of 6000	Г	21	26	
Ci = Rs. 1556.31		21	20	
42) Answer: B	Ci = 26 = 21 =	5 units		
Solution:	$C_1 = 20 - 21 = 5$ units Rate = $(5/26) \times 100$			
P = 800/- Rate = 10% Time = 1(2/5) years	Rate = $(3/20) \times 100$ Rate = 19.23%			
Interest Rates:				
1 st year - 10%	Solution			
2 nd year - 4%	P	Aa	A د	
Effective rate = $R_1 + R_2 + (R_1 \times R_2)/100$ (1)	P	³ √343	³ √ 729	
Effective rate = 14.40%		7	9	

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Compound I	nterest = $9 - 7 = 2$	2 units	Both the interests are for 2 years.		
Rate = $(2/7) \times 100$			Si for 1 year = 17 units		
Rate = 28.57%			Exceeding part = 3 units (Compound interest)		
46) Answer:	A		Rate = $(3/17) \times 100$		
Solution:			Rate = 17.64%		
Р	A_2	A_5	49) Answer: D		
Р	³ √216	³ √ 729	Solution: Let $Si = 300$ units		
	6	9	Let $Ci = 321$ units		
			Both the interests are for 2 years.		
Compound I	nterest = 3 units		Si for 1 year = 150 units	Si for 1 year = 150 units	
Rate = $(3/6)$ >	×100		Exceeding part = 21 units (Compound interest)		
Effective Ra	te =50%		Rate = $(21/150) \times 100$		
47) Answer:	B		Rate = 14%		
Solution:			50) Answer: A		
Scheme	А	В	Solution:		
Р	р	р	Ci = $95/-$ Rate = $11(1/9)\%$		
Rate	5	7	Time = 2 years		
Time	7	9	11(1/9)% = 1/9		
Interest 35%	63%	Let principle = $9^2 = 81$ units			
			81	- nd	
A : B = 5 : 9			1 st year year	2 nd	
48) Answer:	A		9	9	
Solution:				1	
Let $Si = 34$ u	inits		Ci = 19 units		
Let $Ci = 37 \iota$	units		19 units = Rs 95		

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Simple Interest and Compound Interest for Railway Exams

1 Unit = Rs. 5

81 unit = 405/-

Now, Simple interest

Si = $(P \times R \times T)/100$ Si = $(405 \times 1 \times 3)/(9)$ Si = 135/-

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