SIMPLE & COMPOUND INTEREST

Q1. Kunal borrows I	Rs.24000 from a ban	ık at 12% simple	e interest. He repays 20% of the principal at the end of		
every year. What is the simple interest that has accrued at the end of 4 years?					
(1) Rs.8120	(2) Rs.8106	(3) Rs.8408	(4) Rs.8064		
Q2. Pradeep borro	ws Rs.10000 at 20%	for 5 years at s	imple interest. But, from the 4^{th} year onwards, on the		
entire amount due	at the end of three y	ears, the lender	r begins to charge 20% interest compounded annually.		
What is the amount	What is the amount repaid by Pradeep after 5 years from the beginning?				
(1) Rs.15342	(2) Rs.18432	(3) Rs.1732	4 (4) Rs.23040		
Q3. A man took a l	oan of Rs.100000 at	8% per annum	n compound interest. He repays Rs.10000 per annum.		
What is the amount	due from him at the	e beginning of th	ne 3 rd year?		
(1) Rs.91917	(2) Rs.81917	(3) Rs.93970	(4) Rs.95840		
Q4. Given that a pri	ncipal amount to Rs.	.10080 at 10% s	imple interest after 2 years what is compound interest		
for 2 years on this p	rincipal at the same	rate?			
(1) Rs.10164(2) Rs	s.1764 (3)	Rs.1640 (4) Rs	3.3764		
Q5. The difference between the amounts to be repaid by a man at the end of 2 years, at 20% per annum					
compounded annually and half yearly, is Rs.1084.5. What is the principal?					
(1) Rs.45000(2) Rs	s.50000 (3)	Rs.51500 (4) R	Rs.52500		
Q6. Suhel borrowed a certain amount at 28% compound interest and repays it in one year. Binod borrows a					
certain amount at a certain interest rate under simple interest and returns it after 4 years. If the amounts					
repaid by Suhel and Binod are the sum of their principals borrowed is Rs.54000, what is Binod's interest rate?					
(1) 10%	(2) 12%	(3) 15%	(4) 18%		
Q7. What is the principal, if after 5 years at 11% p.a. simple intrest, it amounts to Rs.18600?					
(1) Rs.12000(2) Rs	s.8000 (3)	Rs.15000 (4)	Rs.11000		
Q8. A sum of mone	y invested at simple	interest amoun	ts to Rs.2832 at the end of 3 years and Rs.3120 at the		
end of 5 years. Find the principal.					
(1) Rs.2400	(2) Rs.3000	(3) Rs.3500	(4) Rs.4200		



Q9. The compound interest and the simple interest on a certain sum for two years are Rs.1230 and Rs.1200 respectively. The rate of interest is same for both compound interest and simple interest. What is the principal?

(1) Rs.10000

(2) Rs.12000

(3) Rs.12500

(4) Rs.16000

Q10. The compound interest on a certain sum for the third and the fourth years is Rs.1815 and Rs.1996.5 respectively. What is the rate of interest?

(1)5%

(2) 8%

(3) 10%

(4) 12%

Q11. Srikanth buys a car worth Rs.525000 as down payment and agrees to pay the remaining amount in instalment. What is the approximate yearly instalment amount to be paid by him, if at 12% p.a. compounded annually, he repays the remaining amount in three more years? Given that (1/1.12)3 = 0.71

(1) Rs.160000 (2) Rs.165000 (3) Rs.180000

(4) Rs.183000

Q12. What annual instalment will discharge a debt of Rs.1450 due after 5 years at 8% p.a simple interest?

(1) Rs.320

(2) Rs.450

(3) Rs.250

(4) Rs.400

Q13. Sourabh borrows Rs.2500000 at 12% compound interest from a bank and invests in shares. The investment gives him a return of 20% per annum and he repays Rs.500000 at the end of first year. How much does he make for himself after paying all the outstanding amount at the end of the second year?

(1) Rs.424000 (2) Rs.356241.50 (3) Rs.525000

(4) Rs.484241.80

Q14. Puneet borrows Rs.32000 from Jalpesh at 10% simple interest. He lends it to Govind at 20% compound interest. How much more would Puneet have gained, if Govind had returned the amount in 3 years instead of 2 years?

(1) Rs.5016

(2) Rs.7016

(3) Rs.6016

(4) Rs.4016

Q15. A sum of Rs.3000 has been borrowed by Akshay who agrees to repay the amount in three equal annual instalments. Initially the interest rate in the scheme is 10% p.a. compounded annually; but after two instalments have been paid, the interest rate is increased to 15% p.a., effective from that year. What is the value of the last instalment? (given (100/110)3 = 0.75)

(1) Rs.1651

(2) Rs.1575

(3) Rs.1277

(4) Rs.1471

Q16. The difference between the interest under compound interest being compounded annually and simple interest, for two years, for the same sum and at the same of rate of interest is Rs.112.5. Find the sum if the rate of interest is 15%?



(1) Rs.3500	(2) Rs.5000	(3) Rs.7500	(4) Rs.10000
Q17. Aman inves	ts Rs.34000, part c	of it in scheme A	at 20% p.a. and the rest of it in scheme B at 60% p.a., both
at compound int	erest. If, after two	years, the amou	int in scheme A is 9 times that in scheme B, how much was
invested in scher	me B?		
(1) Rs.16000	(2) Rs.17000	(3) Rs.2000	(4) Rs.1000
Q18. The differe	nce between the c	ompound and s	imple interest on a sum for 3 years at 20% p.a. is Rs.3200.
Find the sum.			
(1) Rs.5000	(2) Rs.10000	(3) Rs.15000	(4) Rs.25000
Q19. What is the	present worth of	Rs.20000 due af	ter 3 years at 10% p.a. compound interest? (given (1/1.1) =
0.90)			
(1) Rs.13970	(2) Rs.14120	(3) Rs.14580	(4) Rs.15730
Q20. In how mar	ny years will a sum	of Rs.1875 amou	unt to Rs.2187 at 8% p.a. compound interest?
(1) 1	(2) 2	(3) 3	(4) 4
Q21. A sum whe	n lent at a certain i	rate compounde	d annually amounts to Rs.1200 in 2 years and when lent at
twice the previou	us rate amounts to	Rs.1323 in the s	ame time. What is the rate at which it was initially lent?
(1) 4%	(2) 4 3/7%	(3) 5 5/19%	(4) 6 ¼%
Q22. Somesh sav	es Rs.20000 at the	beginning of ea	ch year in a savings bank account that pays 5% p.a, interest
being compound	ded annually. If, a	t the beginning	of the third year, interested of depositing Rs.20000, he
withdraws Rs.10	000, how much wo	uld be the total	savings of the man at the end of three years?
(1) Rs.28124.24	(2) Rs.29324.	20 (3) Rs.31349.	75 (4) Rs.34702.50
Q23. A certain su	ım becomes twice	itself in exactly f	ive years at r% p.a. simple interest. In which years does the
sum amount to t	wice itself, under r	% compound int	erest?
(1) 2	(2) 3	(3) 4	(4) Cannot be determined
Q24. Praveen in	vested a certain	amount in a six	x-year fixed deposit scheme, interest being compounded
annually. The in	iterests accrued o	n this deposit	for the 4^{th} and 5^{th} years, respectively, are Rs.1331 are
Rs.1464.1. If Geo	orge deposited Rs.	12000 in the sa	me scheme, how much interest would be accrued on this
deposit for the fi	rst two years?		
(1) Rs.1320	(2) Rs.1452	(3) Rs.2520	(4) Rs.1440

Q25. If a sum of Rs.12000 is lent at 5% p.a. compound interest, what is the interest for the third year?

(1) Rs.441	(2) Rs.661.50	(3) Rs.531.20	(4) R.742.75		
Q26. Akash dep	Q26. Akash deposits a sum P in a bank at r% compound interest. The amount becomes 27P after 3 years by				
compounding a	nnually. Instead, if t	he bank had co	mpounded half yearly, wh	at is the additional amount Akash	
would have rec	eived in terms of P?				
(1) 54P	(2) 37P	(3) 18P	(4) 5P		
Q27. Pramod b	orrows a sum at cor	mpound interes	t and it amounts to Rs.138	3240 at the end of 3 years and to	
Rs.199065.60 a	t the end of 5 years.	What is the sun	n borrowed?		
(1) Rs.76000	(2) Rs.80000	(3) Rs.90000	(4) Rs.96000		
Q28. Kishore ta	kes a loan of Rs.800	00 at simple inte	erest. After 4 years he take	es an additional loan of Rs.14440.	
From that point	, compound interes	t at 10% per anr	num is calculated on the to	otal amount repayable on the first	
loan as well as	the second loan. H	le repays a tota	al of Rs.30250 after 2 mo	re years to clear the entire loan	
amount. What i	s the rate of simple	interest?			
(1) 6%	(2) 9%	(3) 7%	(4) 8%		
Q29. Sumit take	es a loan from a fina	ancier at 100% p	o.a. interest. When he was	s repaying it after 3 years, he had	
to pay Rs.95200	00 more after 3 year	s; he had to pay	Rs.952000 more because	the loan was compounded every	
moment, instea	d of annually. What	is the Principal	amount? [Take e = 2.71 ar	nd (2.71)3 = 19.9]	
(1) Rs.70000	(2) Rs.75000	(3) Rs.80000	(4) Rs.85000		
Q30 . A person borrows Rs. 5000 for 2 years at 4 % p.a. simple interest. He immediately lends it to another					
person at 6 ½ % p.a, for 2 year. Find his gain in the transaction per year.					
(a) Rs 112.50	(a) Rs 112.50 (b) Rs. 125 (c) RS 150 (d) Rs. 167.50				
Q31. How much time will it take for an amount for Rs. 450 to yield Rs. 81 as interest at 4.5% per annum of					
simple interest?	•				
(a) 3.5year	(b) 4year	(c) 4.5 year	d) 5 year		
Q32. 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?					
(a) 3%	(b) 4%	(c) 5%	(d) 6% (e) None of them	
Q33. Reena took a loan of Rs 1200 with simple interest for as many years as the rate of interest. If she paid Rs.					
432 as interest at the end of the loan period, what was the rate of interest?					
(a) 3.6	(b) 6	c) 18 (d	cannot be determined	(e) None of these	



becomes:



Q34. A man took	Q34. A man took a loan from a bank at the rate of 12% p.a., simple interest. After 3 years he had to pay Rs.				
5400 interest only	\prime for the period. Th	e principal amoun	t borrowed by him was.		
(a) Rs. 2000	(b) Rs. 10, 000	(c) Rs. 15,000	(d) Rs. 20,000		
Q35. What is the J	present worth of R	s. 132 due in 2 yea	ars at 5% simple interest	per annum?	
(a) Rs. 112	(b) Rs. 118.80	(c) Rs. 120 (d)	Rs. 122		
Q36. A sum fetche	ed a total simple in	terest of Rs. 4016.	.25 at the rate of 9 p.c.p.a	a. in 5 years. What is the sum?	
(a) Rs.4462.50	(b) 8032.50	(c) Rs. 8900	(d) 8925		
(e) None of these					
Q37. Rs. 800 becc	omes Rs. 956 in 3 y	ears at a certain ra	ate of simple interest. If t	the rate of interest increased by	
4%, what amount	will Rs. 800 becom	ne in 3 years?			
(a) Rs. 1020.80	(b) Rs. 1025	(c) Rs. 1052	(d) Data inadequate	(e) None of these	
Q38. A certain am	nount earns simple	e interest of Rs. 17	750 after 7 years. Had th	e interest been 2% more, much	
more interest wou	uld it have earned?				
(a) Rs. 35	(b) Rs. 245	(c) Rs. Cannot be	e determined (d) None o	of these	
Q39. In how many	years, Rs 150 will	produce the same	e interest @ 8% as Rs. 800	O produce in 3 years @ 4 ½ %?	
(a) 6	(b) 8	(c) 9	d) 12		
Q40. A sum invested 5% simpler interest per annum grows to Rs. 504 in 4 years. The same amount at 10%					
simple interest per annum 2 ½ years will grow to:					
(a) Rs. 420	(b) Rs. 450	(c) Rs. 525 (d)	Rs. 550		
Q41. What will be the ratio of simple interest earned by certain amount at the same rate of interest for 6					
years and that for 9 years?					
(a) 1:3	(b) 1:4	(c) Data inadequa	ite (d) None of these		
Q42. nitin borrowed some money at the rate of 6% p.a for the first three years, 9% p.a. for the next five years					
and 13% p.a for the period beyond eight years. If the total interest paid by him at the end of eleven years is Rs.					
8160, how much money did he borrow?					
(a) Rs. 8000	(b) Rs. 10,000	(c) Data inadequa	ate (d) none of these		
Q43. An automobile financier claims to be lending money at simple interest, but he includes the interest every					
six months for calculating the principal. If he charging an interest of 10%, the effective rate of interest					



(b) 10.25%

(c) 10.5%

(a) 10%

Q44. A sum money lent out at simple interest amounts to Rs. 720 after 2 years and to Rs. 1020 after a further

(d) None of these

period of 5 year	s. The sum is:				
(a) Rs. 500	(b) Rs. 600	(c) Rs. 700	(d) Rs. 710		
Q45. A sum of r	noney amount to	Rs. 9800 after 5	years and Rs. 12005 after 8 ye	ars at the same rate of simple	
interest. The rate of interest per annum is:					
(a) 5%	(b) 8%	(c) 12%	(d) 15%		
Q46. At what ra	te percent of simp	le interest will a	sum of money double itself in	12 years?	
(a) 8 ¼ %	(b) 8 1/3 %	(c) 8 ½	(d) 8 ½ %		
Q47. At what ra	te percent per an	num will the sim	ple interest on a sum of mone	ey be 2/5 of the amount in 10	
years?					
(a) 4%	(b) 5 2/3 %	(c) 6%	(d) 6 %		
Q48. A sum of money becomes 7/6 of itself in 3 years at a certain rate of simple interest. The rate per annum					
is:					
(a) 5 5/9 %	(b) 6 5/9 %	(c) 18 %	(d) 25%		
Q49. Simple interest on a certain amount is 9/16 of the principal. If the numbers representing the rate of					
interest, in percent and time in years be equal, then time, for which the principal lent out, is:					
(a) 5 ½ years	(b) 6 ½ years	(c) 7 years	(d) 7 ½ years		