

Name of the Bundle	Advanced Bundle V2	Subject	Aptitude
Торіс	Simple Interest	Last updated on	13 November 2024

- 1. Calculate the simple interest on a principal of Rs5000 lent at a rate of 10% for 2 years.
 - a. 500
 - b. 1000
 - c. 1500
 - d. 2000

Ans: b. 500 Explanation: Method 1: By using Formula

SI=PRT/100

=(5000X10X2)/100

=1000

Method 2: By Percentage

Hint: Consider Principal as 100%

SI as rt% (Product of rate and time period)

So, Here	%	Rs
	1 00	50 00
	20	1000



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- 2. Calculate the Amount on a principal of Rs1000 lent at a rate of 10% for simple interest for 2 years.
 - a. 1200
 - b. 2000
 - c. 1500
 - d. 1000

Ans: a. 1200

Explanation:

Method 1:

SI =(1000x10x2)/100=200

Amount = P+SI= 1000+200=1200

Method 2: Percentage Method

%	Rs
100	1000
120	1200

- 3. A sum of ₹4000 was lent at a simple interest rate of 5% per annum for a period of 2 years. How much interest was earned?
 - a. 400
 - b. 600
 - c. 800
 - d. 1000

Ans: a. 400

Explanation: P=4000, R=5%, T=2 Years

SI = PRT/100

= (4000*5*2)/100

=400



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- 4. The simple interest on a certain sum at 15% p.a for three years is Rs.7200.The sum is_____.
 - a. 16000
 - b. 24000
 - c. 32000
 - d. 48000

Ans: a. 16000

Explanation:

P=?, R=15%, T=3 Years, SI= 7200

SI =PRT/100

7200 = (P*15*3) /100

=16000

- 5. A person deposits ₹8000 in a bank which pays 8%p.a simple interest. The amount after 8 years will be _____.
 - a. 39120
 - b. 13120
 - c. 29544
 - d. 69359

%

Ans: b. 13120

Explanation:

P=8000, R=8%, T=8 Years, SI= ?

Rs

100 8000

164 **13120**



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- 6. The simple interest on a principal for 6 months at an interest rate of 10% per annum is 100.What is the principal?
 - a. 1000
 - b. 10000
 - c. 2000
 - d. 6000

Ans: c. 2000

Explanation:

P=?, R=10% per annum, T=1Year, SI= 100 for 6 months, 200 for 1 year.

%	Rs	r= 10% For 1 Year
5	100	r= 5% For 6 months
100	2000	

- 7. ₹480 is invested at simple interest. It becomes ₹520 after 20 months. What is the interest rate per annum?
 - a. 6%
 - b. 5%
 - c. 8%
 - d. 4%

Ans: b. 5%

Explanation: P=480, R=?, T=20Years 1 year + 8 months =20/12=5/3, Amount =520 Amount +SI =Principal

> 520+SI=480 SI=520-480=40 SI=40 SI=PRT/100 40=(480*R*5)/100*3 R=5%

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- 8. Find the total amount receivable on ₹8000 at 12% simple interest for 5 years.
 - a. Rs.22000
 - b. Rs.22300
 - c. Rs.20400
 - d. Rs.12800

Ans: d. Rs. 12800

Explanation:

P=8000, R=12% , T=5 Years, Amount =?



9. Find the total amount receivable of ₹10000 at 10% simple interest for 5 years.

- a. Rs.2000
- b. Rs.2500
- c. Rs.5000
- d. Rs.15000

Ans: d. Rs. 15000

Explanation:

P=1000, R=10% , T=5 Years, Amount =?

%	Rs
100	10000
150	15000



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- 10. A sum of ₹1500 is invested at simple interest for x months. If the rate of interest is x/8% per annum, then the sum grows to ₹1590.What is the value of x?
 - a. 3.2months
 - b. 2.4months
 - c. 32 months
 - d. 24 months

Ans: d. 24 months

Explanation:

P=1500, R=x/8%, T=x months, Amount=1590

SI=A-P 1590-1500 =90		
%	Rs	
100	1500	
X² / (8*12)	?	
9600	1500	
X ²	24	
X ² =192*3	=576	

Taking Square root, We get X = 24 months.



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- 11.In how many years shall ₹3500 invested at the rate of 10% simple interest per annum, amounts to ₹4500.
 - a. 2 5/7 years
 - b. 26/7 years
 - c. 2 4/7 years
 - d. 23/7 years

Ans: b. 2 6/7 years

Explanation:

P=3500, R=10%, T=?, Amount=4500, SI=A-P = 4500-3500 =1000

SI=PRT/100

1000=(3500*10*T)/100

=2 6/7 Years.

- 12. A person invests money in three different schemes for 6 years, 10 years and 12 years at 10%, 12% and 15% simple interest respectively. At the completion of each scheme, he gets the same interest. The ratio of his investment is
 - a. 6: 3: 2
 b. 3: 2: 5
 c. 3: 4: 6
 d. 60:120:180

Ans: a. 6: 3: 2

Explanation:

SI=(PRT)/100; P directly proportional to SI.

 $S_1 = R_1 * T_1$. =6*10 =60

 $S_2 = R_2 * T_2$. =10*12 =120

S₃=R₃*T₃ =12*15 =180

Taking Ratio, x:2y:3z=k => 1: 1/2: 1/3 => 6: 3: 2



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- 13.Ashok deposited ₹10000 in bank at a rate of 8% per annum. Find a simple interest for 5 years.
 - a. 2000
 - b. 4000
 - c. 2500
 - d. 2000

Ans: b. 4000

Explanation:

P=10000, R=8%, T=5, SI=?



14. Kamal invested ₹30000 to a 1 year at 7% per annum. Find the simple interest and amount received by him at the end of one year.

- a. 2100,32100
- b. 1800,25300
- c. 2100,31200
- d. 4200,21300

Ans: c. 2100, 31200

Explanation:

P=30000, R=7%, T=1, SI=?, Amount=?

%	Rs	
100	30000	
7	2100	
107	32100	



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15. The simple interest on ₹68000 at 16 2/3% per annum for 9 months is_____.

- a. 2550
- b. 6500
- c. 8500
- d. 85000

Ans: c. 8500

Explanation:

P=68000, R=16 2/3%, T=9 months, SI=?

SI=PRT/100 = (68000*50/3*9/12)/100 = 8500

16. Find the simple interest for ₹6750 for 219 days at 10% earned per annum.

- a. 399
- b. 155
- c. 450
- d. 405

Ans: d. 405

Explanation:

P=6750, R=10%, T=219 days, SI=?

SI=PRT/100

= (6750*219/365*10)/100

=405



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- 17. If the ratio of principal and the simple interest for 5 years is 10:7, then the rate of interest per annum is
 - a. 15%
 - b. 20%
 - c. 10%
 - d. 14%

Ans: d. 14%

Explanation:

P : SI = 10:7 , T=5 years, R=?, SI=?

%	Ratio
100	10(principal ratio)
5r	14%

18. The simple interest on a sum of money is 9/35 of the sum.If the number of years is numerically 5/7 times of rate percent per annum, then the r% p.a .

is ____. a. 9%

- b. 7%
- c. 6%
- d. 4%

Ans: c. 6% Explanation:

SI=9/35P, T=5/7R, SI: P=9: 35

%	Ratio
100	35(principal ratio)
(5/7) R ²	9 (SI Ratio)
700	35
5R ²	9

Solving We get

 R^2 =36; Then taking square root R =6

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19. Ramesh borrows a sum of ₹90,000 for 4 years at 5% simple interest. He lends it to suresh at 7% for 4 years at simple interest. What is his gain?

- a. 8000
- b. 7200
- c. 7500
- d. 90000

Ans: b. 7200

Explanation:

P =9000 , T=4 years , R1=5% , R2=7%

%	Rs	
100	90000	
20	18000	
%	Rs	
100	90000	
28	25200	

Taking Difference = 25200 - 18000 = 7200



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- 20. A sum doubles in 7 years at a simple interest. Find the time in which the sum will become 5 times at the same rate of interest.
 - a. 35 years
 - b. 21 years
 - c. 28 years
 - d. 42 years

Ans: c. 28 years Explanation:

Sum ((Increase)	Years
P>	2P 1 (time)	7
P>	5P 4(time)	28

21. After Certain time, the ratio of principal and amount is 5:6. After 8 years their ratio becomes 1:2. Find the rate of interest.

5 :

- a. 15%b. 10%c. 20%
- d. 12%



P: A 5: 6



To make the Ratio of principal equal

5:6

10 4= (P*R*T)/100 4= (5*R*8)/100

R=10%

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- 22. After Certain time, the ratio of principal and amount is 4:5. After 8 years their ratio becomes 1:2. Find the rate of interest.
 - a. 5%
 - b. 8%
 - c. 10%
 - d. 12%

Ans: a. 5% Explanation:





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23. If the annual rate of simple interest increases from 11% to 17 ½%, a person's yearly income increases by 1071.20. The principal amount invested in Rupee

is ____.

a. 17,250

- b. 19120
- c. 10710
- d. 16480

Ans: d. 16480

Explanation:

Difference in R% = 17.5%-11% = 6.5%

%	Amount
6.5	1071.2
100	16480

- 24. At the rate of 8% the amount invested earns a simple interest of Rs 240 after 3 years. If the rate of interest was 5% more, then how much more interest would it have earned?
 - a. 105 b. 180 c. 150
 - d. 135

Ans: c. 150

Explanation:

SI=R x T		
R*T	Rs	
24	240	How much more interest earned=
(13)*3	390	390-240=150
(8%+5%) =>	(5% more)	



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- 25. A sum at a certain rate of simple interest becomes Rs.14880 after 3 years and Rs 16800 after 5 years. Find the simple interest on the same sum at 10% per annum for 4 years.
 - a. 4800
 - b. 5184
 - c. 4740
 - d. 4860

Ans: a. 4800

Explanation:

P=?, Amount =14880 after 3 years , Amount 16800 after 5 years

Taking Difference, we get the amount for 2 years. 16800-14880=1920

Year	SI
2	1920
3	2880

To find the principal P=? from amount of 3 years 16880-2880=12000

P=12000, R=10%, T=4

SI=(P*R*T)/100 => (12000*10*4)/100=4800



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26. A certain sum amounts to Rs 4600 after 5 years and to Rs 6000 after 8 years at the same rate of interest per annum. What will be the simple interest on a sum of Rs 8500 for 6 ½ years at the same rate?

- a. Rs.11,375
- b. Rs.11,460
- c. Rs.10,215
- d. Rs.10,515

Ans: a. Rs. 11,375 Explanation:

P	4600	- 6000
5 Y	8 Y	
YEAR	SI	
3	1400 (6000-	-4600)
5	7000/3	SI for 5 yrs
To find principal P=? F	or 5 Yrs Amou	nt=4600 SI=4600-7000/3
Principal =	6800/3	
P=6800/3	SI = PRT/100	
SI = 7000/3 70	00/3 = (6800/3)(R)(5)/100, R=?, T=5 yrs
Rate = 350/	17	
For P=8500, R=	350/17%, T=6 ½	Yrs, SI= (PRT)/100
(0500) *	(0F0/47) ±/40/0)	(100

= (8500) *(350/17) *(13/2)/100 =11375



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27.A man has Rs 10,000. He lent a part of it at 15% simple interest and the remaining at 10% simple interest. The total interest he received after 5 years amounted to 6500. The difference between the parts of the amount he lent is

__. a. 2000

- b. 2500
- c. 1500
- d. 1750

Ans: a. 2000 Explanation:



 $SI = SI_1 + SI_2 = 6500$, R = (SI/P) * (100/T)

= (6500/10000)*(100/5) = > R=13%



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28.A man deposited Rs.1850 in a bank at 7% per annum and Rs.2150 in another bank at 9% per annum. Find the rate of interest for the whole sum.

- a. 8.133%
- b. 8.075%
- c. 8.25%
- d. 8.375%





=8.075%



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- 29. Anil lent a sum of Rs.5,000 on a simple interest for 10 years in such a way that the rate of interest is 6% per annum for the first 2 years,8% per annum for the next 2 years and 10% per annum beyond 4 years. How much interest (in Rs) will he earn at the end of 10 years?
 - a. 5000
 - b. 4400
 - c. 4200
 - d. 3500

Ans: b. 4400 Explanation:

P=5000, T=10yrs	r=6%	r=8%	r=10%
	T=2Yrs	T=2Yrs	T=6Yrs
	(R*T) SI = 12	16	60
%	Rs		
100	5000		
88	4400		
(12+16+60)		



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30.A person borrowed Rs1200 at 8% p.a and Rs.1800 at 10% p.a as simple interest for the same period. He has to pay Rs.1380 in total as interest. Find the time period.

- a. 10 Years
- b. 5 Years
- c. 6 Years
- d. 4 Years

Ans: b. 5 Years

Explanation:

P1=1200 , R1=8%

P2=1800 , R2=10% , SI=1380 , T=?

SI= (P1*R1*T1)/100+(P2*R2*T2)/100

1380=(1200*8*T)/100+(1800*10*T)/100

1380= 96T +180T => T=5 Years.



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- 31.A person lends 40% of his sum of money at 15% per annum,50% of rest at 10% per annum and the rest at 18% per annum as rates of interest, If the interest is calculated on the whole sum then what would be the annual rate of interest.
 - a. 13.4%
 - b. 14.33%
 - c. 14.4%
 - d. 13.33%





Average(R)=(p1*r1)+(p2*r2)+(P3*r3)/(P1+P2+P3)

Average(Rate) =(600+300+540)/100 =14.4%