

Simple Interest (LOD 01)

1. The sum required to earn a monthly interest of Rs 400 at 10 % per annum at simple interest is

- a) Rs 2000 b) Rs 12000
c) Rs 24000 d) Rs 48000

2. In what time will the simple interest on Rs 400 at 10% per annum be the same as the simple interest on Rs 1000 for 4 year at 4 % per annum?

- a) 2 yrs b) 3 yrs
c) 4 yrs d) 6 yrs

3. At what rate percent per annum will a sum of money double in 8 yr?

- a) 12 % b) 12.5 %
c) 13 % d) 15 %

4. The amount instalment will discharge on debit of Rs 3220 due in 4 year at 10 % simple interest?

- a) 500 b) 600
c) 700 d) None of these

5. A certain sum amounts to Rs 1586 in 2 year and Rs 1729 in 3 year. Find the rate and the sum.

- a) 8 % b) 9 %
c) 10 % d) 11 %

6. Find the sum of money will amount to Rs 900 in 4 years at 5 % per annum on simple interest?

- a) Rs 750 b) Rs 650
c) Rs 500 d) Rs 550

7. If a certain sum is doubled in 8 yr on simple interest, in how many year will it be four times?

- a) 24 yr b) 16 yr
c) 32 yr d) 12 yr

8. A sum of money at simple interest amount to Rs 1260 in 2 yr and Rs 1350 in 5 yr, then the rate percent per annum is ?

- a) 30% b) 10%

- c) 2.5% b) 5%

9. The difference of 13% per annum and 12% of a sum in 1 year is Rs 110. Then the sum is ?

- a) Rs 12000 b) Rs 13000
c) Rs 11000 d) Rs 16000

10. At what rate percent per annum simple interest, will a sum of money triple itself in 25 year?

- a) 8% b) 5%
c) 6% d) 12 %

11. A certain sum at simple interest amounts to Rs 1040 in 3 Yr and to Rs 1360 in 7 yr. Then the sum is ?

- a) Rs 750 b) Rs 800
c) Rs 900 d) Rs 1000

12. If the rate of simple interest is 12% per annum the amount that would fetch interest of Rs 6000 per annum is ?

- a) Rs 7200 b) Rs 72000
c) Rs 50000 d) Rs 48543.69

13. The simple interest on a certain sum for 3 years at 14% per annum is Rs. 235.20. The sum is ?

- a) Rs. 480 b) Rs. 560
c) Rs. 650 d) Rs. 720

14. A sum of money amounts to Rs. 702 in 2 years and Rs. 783 in 3 years. The rate percent is ?

- a) 12% per annum b) 13% per annum
c) 14% per annum d) 15% per annum

15. If Rs. 64 amount to Rs. 83.20 in 2 years. What will Rs. 86 amount to in 4 years at the same rate percent per annum ?

- a) Rs. 137.60 b) Rs. 124.70
c) Rs. 114.80 d) Rs. 127.40

16. A sum of money amounts to Rs. 850 in 3 years and Rs. 925 in 4 year. The sum is ?

- a) Rs. 600 b) Rs. 575
c) Rs. 625 d) Data inadequate

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17. A sum of money put at simple interest trebles itself in 15 years. The rate per cent per annum is ?

- a) $13\frac{1}{3}\%$ b) $16\frac{2}{3}\%$
c) $12\frac{2}{3}\%$ d) 20%

18. At the certain rate of simple interest, a certain sum doubles itself in 10 years. It will treble itself in ?

- a) 15 years b) 20 years
c) 30 years d) 12 years

19. A sum of money at simple interest amounts to Rs. 2240 in 2 years and Rs. 2600 in 5 years. The sum is ?

- a) Rs. 1880 b) Rs. 2000
c) Rs. 2120 d) Data inadequate

20. The simple interest at R% for R years will be Rs. R on a sum of ?

- a) Rs. R b) Rs. 100R
c) Rs. $\frac{100}{R}$ d) Rs. $\frac{100}{R^2}$

21. At simple interest, a sum doubles after 20 years. The rate of interest per annum is ?

- a) 5% b) 10%
c) 12% d) Data inadequate

22. What annual payment will discharge a debt of Rs. 580 due in 5 years, the rate being 8% per annum ?

- a) Rs. 166.40 b) Rs. 65.60
c) Rs. 100 d) Rs. 120

23. Ashok took a loan of Rs. 15000 for 3 years at simple interest. If the total interest paid is Rs. 2700. What is the rate of interest per annum ?

- a) 18 b) 5.4
c) 9 d) 6

24. Yogesh borrowed Rs. 12000 at simple interest for 5 years, If he paid Rs. 3600 as simple interest after 5 years, What is the rate of interest per cent per annum ?

- a) 5 b) 8
c) 10 d) 6

25. If a sum of money double itself in 20 years. What is the rate of simple interest per cent per year ?

- a) 4% b) 8%
c) 5% d) 10%

26. Mr. Patel borrowed Rs. 8000 from Mr. Chobey at simple interest. After 2 years he paid Rs. 800 more than what he borrowed and thus cleared the loan. What was the rate of interest ?

- a) 6 b) 8
c) 5 d) None of these

27. Rs. 4200 amounts to Rs. 5712 in 4 years. If rate of interest is increased by 3%. What will be the amount ?

- a) Rs. 6372 b) Rs. 4000
c) Rs. 6216 d) Rs. 3000

28. In how many years, a sum will become four times itself at the rate of 12% per annum ?

- a) 28 yr b) 25 yr
c) 22 yr d) 27 yr

29. At simple interest of 5%, 6% and 8% for three consecutive years, the interest earned is ₹ 760. find the principle. ?

- a) ₹ 4600 b) ₹ 3200
c) ₹ 4000 d) ₹ 3600

30. What would be the simple interest accrued in 4 yr on a principle of ₹ 18440 at the rate 15% per annum ?

- a) ₹ 11075 b) ₹ 12250
c) ₹ 11500 d) ₹ 12985
e) None of the above

31. What will be the simple interest on ₹ 4000 at $12\frac{1}{2}\%$ per annum for the period from 4th February, 2005 to 18th April, 2005 ?

- a) ₹ 215 b) ₹ 120
c) ₹ 200 d) ₹ 100

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32. Rakesh lent out ₹ 8750 at 7% annual interest, Find the simple interest in 3 yr.

- a) ₹ 1870 b) ₹ 1837.50
c) ₹ 1560 d) ₹ 2200

33. What will be simple interest for 1 yr and 4 months on a sum of ₹ 25800 at the rate of 14% per annum ?

- a) ₹ 4816 b) ₹ 2580
c) ₹ 4816.75 d) ₹ 4815

34. A sum at simple interest of $13\frac{1}{2}\%$ per annum amounts to ₹ 3080 in 4 yr Find the sum.

- a) ₹ 1550 b) ₹ 1680
c) ₹ 2000 d) ₹ 1850

35. The sum which amount to ₹ 364.80 in 8 yr at 3.5% simple interest per annum is

- a) ₹ 285 b) ₹ 280
c) ₹ 275 d) ₹ 270

36. A sum of ₹ 2668 amount to ₹ 4669 in 5 yr at the rate of simple interest . Find the rate per cent.

- a) 15.2% b) 14.9%
c) 16% d) 15%

37. Find the difference in amount and principal for ₹ 4000 at the rate of 5% annual interest in 4 yr.

- a) ₹ 865.50 b) ₹ 865
c) ₹ 400 d) ₹ 800

38. A sum becomes its double in 10 yr. Find the annual rate of simple interest.

- a) 1% b) 5%
c) 10% d) 20%

39. How long will a sum of money invested at 5% per annum SI take to increase its value by 50%

- a) 10 yr b) 12 yr
c) 15 yr d) 7 yr

40. A certain sum becomes 8 fold in 15 yr at simple interest. What will be the rate interest ?

- a) $46\frac{5}{3}\%$ b) $46\frac{2}{3}\%$
c) $46\frac{5}{8}\%$ d) $46\frac{12}{11}\%$

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Simple Interest (LOD 01 - Answers)**1. Correct Option: D**Total interest needed in a year = Rs 400×12

= Rs 4800

Principal = $(100 \times SI)/R \times T$

where, R = Rate

T = Time

SI = Simple Interest

2. Correct Option: C

Here, P = Rs 1000

T = 4 yrs

R = 4 %

where, P = Principal

T = Time

R = Rate

Since, Simple Interest on Rs 1000 = $(1000 \times 4 \times 4)/100$

= Rs 160

now, simple interest = Rs 160

P = Rs 400

R = 10 %

then, $T = (100 \times SI)/P \times R$ = $(100 \times 160)/(400 \times 10)$

= 4 yr

3. Correct Option: B

Let Sum = P, Then SI = P

As Amount A = $2 \times P$

where, P = Principal

Rate R = $(100 \times SI)/(P \times T)$ = $(100 \times P)/(P \times 8) \%$

= 12.5 %

where, SI = Simple Interest

T = Time

4. Correct Option: C

Let the amount instalment be Rs 'x'

Then According to question,

(Amount of 'x' for 3 yrs) + (Amount of 'x' for 2 yrs) + (Amount of 'x' for 1 yrs) + x = 3220

or, $[x + (x \times 10 \times 3)/100] + [x + (x \times 10 \times 2)/100] + [x + (x \times 10 \times 1)/100] + x = 3220$ $\Rightarrow 4x + (30x/100) + (20x/100) + (10x/100) = 3220$ $\Rightarrow 460x = 322000$ $\Rightarrow x = \text{Rs } 700$ \therefore Each Instalment = Rs 700**5. Correct Option: D**

Simple Interest in 1 year = Rs (1729 - 1586)

= Rs 143

now, SI in 2 year = Rs 286

Principal P = Rs (1586 - 286)

= 1300

And R = $(100 \times SI)/(P \times T)$ = $(100 \times 143)/(1300 \times 1)$

= 11 %

where, R = rate, SI = Simple Interest

P = Principal

T = Time

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6. Correct Option: A

Let the sum of money be Rs y

$$\text{So Amount} = y + [(y \times 5 \times 4) / 100]$$

But Amount = Rs 900

$$\Rightarrow 900 = y + (20y) / 100$$

$$\Rightarrow 900 = 6y / 5$$

$$\Rightarrow y = (900 \times 5) / 6$$

$$= \text{Rs } 750$$

7. Correct Option: A

Let the sum be Rs ' y ', so amount = $2y$

Simple interest = Rs y

Let R be the rate of interest,

$$R = (100 \times \text{SI}) / (P \times T) = (100 \times y) / (y \times 8) = 12.5 \%$$

where SI = Simple Interest

P = Principal

T = Time

now, the needed amount = Rs $4y$

$$\text{since SI} = \text{Rs } (4x - x) = \text{Rs } 3y$$

$$\text{since } T = (100 \times \text{SI}) / (P \times R)$$

$$= (100 \times 3y) / (y \times 125) = 24 \text{ yr}$$

8. Correct Option: C

$$\text{Simple in 3 year} = \text{Rs } (1350 - 1260) = \text{Rs } 90$$

$$\text{Simple in 2 year} = (2/3) \times 90 = \text{Rs } 60$$

$$\text{Principal} = \text{Rs } (1260 - 60) = \text{Rs } 1200$$

$$\text{Rate, } R = (100 \times \text{SI}) / (P \times T) = (100 \times 60) / (1200 \times 2) = 60 / 24 = 25 \%$$

where, SI = Simple Interest

P = Principal

T = Time

9. Correct Option: C

Let the sum be ' y '

$$\text{then, } [(y \times 13 \times 1) / 100] - [(y \times 12 \times 1) / 100] = 110$$

$$\text{since } (y / 100) = \text{Rs } 110$$

$$\therefore Y = \text{Rs } 11000$$

10. Correct Option: A

Let principal amount = P

$$\text{As amount} = 3P, T = 25 \text{ yr}$$

$$\therefore \text{SI} = 3P - P = 2P$$

$$\therefore \text{Rate } R = (100 \times \text{SI}) / (P \times T)$$

where, SI = Simple Interest T = Time

$$= (100 \times 2P) / (P \times 25) = 8\%$$

11. Correct Option: B

$$\text{Simple Interest for 4 yr} = \text{Rs } (1360 - 1040) = \text{Rs } 320$$

$$\text{so, Simple Interest for 3 yr} = \text{Rs } [(320 / 4) \times 3] = \text{Rs } 240$$

$$\text{Sum} = \text{Rs } (1040 - 240) = \text{Rs } 800$$

12. Correct Option: C

Rate of Interest = 12% per annum

Simple Interest = Rs 6000 per annum

Let ' P ' is the principal

$$\text{SI} = (P \times R \times T) / 100$$

where, SI = Simple Interest

T = Time R = Rate

$$\therefore 6000 = (P \times 1 \times 12) / 100$$

$$\therefore P = (6000 \times 100) / 12$$

$$= \text{Rs } 50000$$

Hence the required amount is Rs 50000

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13. Correct Option: B

$$\begin{aligned}\text{Required sum} &= \text{Rs. } (100 \times \text{SI}) / (T \times R) \\ &= (100 \times 235.20) / (3 \times 14) \\ &= \text{Rs. } 560\end{aligned}$$

14. Correct Option: D

$$\begin{aligned}\text{S.I. for 1 year} &= \text{Rs. } (783 - 702) = \text{Rs. } 81 \\ \text{S.I. for 2 years} &= \text{Rs. } (81 \times 2) = \text{Rs. } 162 \\ \therefore \text{Sum} &= \text{Rs. } (702 - 162) = \text{Rs. } 540 \\ \therefore \text{Required rate} &= (100 \times \text{SI}) / (P \times T) = (100 \times 162) / (540 \times 2) \% = 15\%\end{aligned}$$

15. Correct Option: A

$$\begin{aligned}\text{S.I. on Rs. } 64 \text{ for 2 year} &= \text{Rs. } 19.20 \\ \therefore \text{Rate} &= (100 \times \text{SI}) / (P \times T) = (100 \times 19.20) / (64 \times 2) = 15\% \\ \therefore \text{S.I. On Rs. } 86 \text{ for 4 year} &= (P \times R \times T) / 100 = \text{Rs. } (86 \times 4 \times 15) / 100 = \text{Rs. } 51.60 \\ \therefore \text{Amount of Rs. } 86 \text{ after 4 years} &= \text{Rs. } (86 + 51.60) = \text{Rs. } 137.60\end{aligned}$$

16. Correct Option: C

$$\begin{aligned}\text{S.I. for 1 year} &= \text{Rs. } (925 - 850) = \text{Rs. } 75 \\ \text{S.I. for 3 year} &= \text{Rs. } (75 \times 3) = \text{Rs. } 225 \\ \therefore \text{Sum} &= \text{Rs. } (850 - 225) = \text{Rs. } 625\end{aligned}$$

17. Correct Option: A

$$\begin{aligned}\text{Let principal} &= P \\ \text{Then, SI} &= 2P \text{ \& Time} = 15 \text{ years} \\ \therefore \text{Required rate} &= (100 \times \text{SI}) / (P \times T) = (100 \times 2P) / (P \times 15) = 200/15 = 13 \frac{1}{3} \text{ per annum}\end{aligned}$$

18. Correct Option: B

Let principal = P. Then, S. I = P. and Time = 10 years

$$\begin{aligned}\therefore \text{Required time} &= [(n - 1) \times t] / (m - 1) \\ &= [(3 - 1) \times 10] / (2 - 1) \\ &= 20 \text{ years}\end{aligned}$$

19. Correct Option: B

$$\begin{aligned}\text{S.I. for 3 years} &= \text{Rs. } (2600 - 2240) = \text{Rs. } 360 \\ \text{S.I. for 2 years} &= \text{Rs. } (360/3 \times 2) = \text{Rs. } 240 \\ \therefore \text{Required sum} &= \text{Rs. } (2240 - 240) = \text{Rs. } 2000\end{aligned}$$

20. Correct Option: C

$$\begin{aligned}\text{Sum} &= (100 \times \text{SI}) / (R \times T) \\ &= (100 \times R) / (R \times R) \\ &= \text{Rs. } 100/R\end{aligned}$$

21. Correct Option: A

$$\begin{aligned}\text{Let sum} &= P, \text{ then SI} = P \text{ and Time} = 20 \text{ years} \\ \therefore \text{Required rate} &= (100 \times \text{SI}) / (P \times T) = (100 \times P) / (P \times 20) = 5\% \text{ per annum}\end{aligned}$$

22. Correct Option: C

$$\begin{aligned}\text{Let the annual installment be Rs. } P \\ \text{Then, } [P + (P \times 4 \times 8)/100] + [P + (P \times 3 \times 8)/100] \\ + [P + (P \times 2 \times 8)/100] + [P + (P \times 1 \times 8)/100] + P \\ = 580 \\ \Rightarrow 33P/25 + 31P/25 + 29P/25 + 27P/25 + P = 580 \\ \Rightarrow (120 + 25)P = 580 \times 25 \\ \therefore P = 100\end{aligned}$$

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23. Correct Option: D

$$\therefore \text{Rate} = \left[\frac{(\text{interest} \times 100)}{(\text{Principal} \times \text{Time})} \right] \%$$

$$\Rightarrow \text{Rate} = (2700 \times 100) / (15000 \times 3) \%$$

$$\therefore \text{Rate} = 6\%$$

24. Correct Option: D

$$\text{Rate} = \left[\frac{(\text{interest} \times 100)}{(\text{Principal} \times \text{Time})} \right] \%$$

$$= (3600 \times 100) / (12000 \times 5)$$

$$= 6 \%$$

25. Correct Option: C

Let the principal = Rs. P

$$\Rightarrow \text{Amount} = \text{Rs. } 2P$$

$$\Rightarrow \text{Interest} = 2P - P = \text{Rs. } P$$

$$\therefore \text{Rate} = \frac{(\text{interest} \times 100)}{(\text{Principal} \times 20)} = \frac{(P \times 100)}{(P \times 20)} = 5\%$$

26. Correct Option: C

$$\text{Rate} = \frac{(\text{Interest} \times 100)}{(\text{Principal} \times \text{Time})}$$

$$= \frac{(800 \times 100)}{(8000 \times 2)}$$

$$= 5\%$$

27. Correct Option: C

$$\text{S.I} = \frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$$

$$\therefore \text{Amount} - \text{Principal} = \frac{\text{Principal} \times \text{Rate} \times \text{Time}}{100}$$

$$\Rightarrow 5712 - 4200 = \frac{(4200 \times \text{Rate} \times 4)}{100}$$

$$\Rightarrow 1512 = 42 \times 4 \times \text{Rate}$$

$$\text{Rate} = \frac{1512}{(42 \times 4)} = 9\%$$

$$\text{On increasing } 3\%, \text{ new rate of interest} = 9 + 3 = 12\%$$

$$\text{Simple interest on new rate} = \frac{(4200 \times 12 \times 4)}{100} = \text{Rs. } 2016$$

$$\text{Amount} = \text{Principal} + \text{Interest} = 4200 + 2016 = \text{Rs. } 6216$$

28. Correct Option: B

Let the sum be ₹ P .

$$\text{Then, SI} = 4P - P = ₹ 3P$$

$$\frac{(P \times 12 \times T)}{100} = 3P$$

$$\Rightarrow T = \frac{(3 \times 100)}{12} = 25 \text{ yr}$$

29. Correct Option: C

Let the principle be ₹ P .

Then,

$$\frac{(P \times 1 \times 5)}{100} + \frac{(P \times 1 \times 6)}{100} + \frac{(P \times 1 \times 8)}{100} = 760$$

$$\Rightarrow \frac{5P}{100} + \frac{6P}{100} + \frac{8P}{100} = 760$$

$$\Rightarrow 19P = 760 \times 100$$

$$\therefore P = \frac{(760 \times 100)}{19} = ₹ 4000$$

Hence, the principle is ₹ 4000

30. Correct Option: E

$$\text{Given, } P = 18440, R = 15\%, T = 4$$

$$\therefore \text{Simple interest (SI)} = \frac{(P \times R \times T)}{100}$$

$$= \frac{(4 \times 18440 \times 15)}{100}$$

$$= ₹ 11064$$

31. Correct Option: D

$$\text{Here, } P = ₹ 4000, R = \frac{121}{2}\% = 25 \frac{1}{2}\%$$

$$T = (24 + 31 + 18) \text{ days} = 73 \text{ days}$$

$$= \frac{73}{365} \text{ yr} = \frac{1}{5} \text{ yr}$$

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$$\therefore SI = (P \times R \times T)/100 = (4000 \times 25/2 \times 1/5)/100$$

$$= ₹ 100$$

32. Correct Option: B

Given, $P = ₹ 8750$, $R = 7\%$ $T = 3$ yr

According to the formula.

$$SI = (P \times R \times T)/100 = (8750 \times 7 \times 3)/100$$

$$= ₹ 1837.50$$

33. Correct Option: A

Here, $P = ₹ 25800$, $R = 14\%$

$T = 1$ yr 4 months $= 1 + (4/12)$ years $= 1 + (1/3) = 4/3$ yr.

According to the formula,

$$SI = (P \times R \times T) / 100 = \{25800 \times 14 \times (4/3)\}/100$$

$$= (258 \times 14 \times 4)/3$$

$$= ₹ 4816$$

34. Correct Option: C

Let sum $= P$

Then, $SI = (P \times R \times T)/100$

$$= \{P \times (27/2) \times 4\} / 100$$

$$= \{P \times 54\} / 100 = 27P / 50$$

$$\therefore \text{Amount} = P + 27P / 50 = 77P/50$$

According to the question $77P/50 = 3080$

$$\therefore P = (3080 \times 50)/77 = ₹ 2000$$

35. Correct Option: A

Given, $t = 8$ yr, $r = 3.5\%$, $A = ₹ 364.80$

Let amount $= ₹ P$

Since, $A = P [1 + (RT/100)]$

$$\therefore 364.80 = P[1 + (3.5 \times 8)/100]$$

$$\Rightarrow 364.80 = P[1 + (35 \times 8)/100]$$

$$\Rightarrow 3648/10 = P \times (128/100)$$

$$\Rightarrow P = 3648/128 = ₹ 285$$

36. Correct Option: D

Here, $P = ₹ 2668$, $T = 5$ yr, $A = ₹ 4669$

We know that,

Amount (A) = Principal (P) + (Simple Interest) SI

$$4669 = 2668 + SI$$

$$\Rightarrow SI = 4669 - 2668 = ₹ 2001$$

Again, $SI = (P \times R \times T)/100$

$$\therefore 2001 = (2668 \times R \times 5)/100$$

$$\Rightarrow R = (2001 \times 100) / (2668 \times 5)$$

$$= (2001 \times 5)/667 = 15\%$$

37. Correct Option: D

The required difference in amount and principal is $SI = A - P$

Here, $P = ₹ 4000$, $R = 5\%$ $T = 4$ yr

According to the formula.

$$SI = (P \times R \times T) / 100$$

$$= (4000 \times 5 \times 4)/100 = ₹ 800$$

38. Correct Option: C

Here, $n = 2$, $T = 10$ yr

$$\therefore R = 100 (n - 1)/T$$

$$= 100(2 - 1)/10$$

$$= 100/10$$

$$= 10\%$$

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39. Correct Option: A

Let sum be P.

$$\therefore 50\% \text{ of } P = P/2 = SI$$

$$\text{Now, } P/2 = (P \times 5 \times T) / 100 \text{ [as time = 10 yr]}$$

$$\Rightarrow P/2 = 5PT / 100$$

$$\Rightarrow 1/2 = T/20$$

$$\therefore T = 10 \text{ yr}$$

40. Correct Option: B

Let sum = p

Then, after 15 yr Sum = 8p

$$\therefore SI = 8p - P = 7P$$

$$\text{Now, } 7P = (P \times R \times 15)/100$$

$$\Rightarrow 7 = 15R/100 = 3R/20$$

$$\therefore R = (20 \times 7)/3 = 140/3 = 46\frac{2}{3}\%$$

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