Q. Simple Interest on a certain sum is 1/16 of the sum. Find the time in years, if time is numerically equal to the rate percent.

a) $\frac{10}{4}$ b) $\frac{10}{8}$
c) $\frac{10}{6}$ d) $\frac{10}{5}$

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

a) 20% b) 30%
c) 10% d) 40%

Q. At what time, a sum amounts to Rs. 1,120 at 4% per annum and to Rs. 1,200 at 5% per annum simple interest?

a) 20 years **b) 10 years**
c) 15 years d) 25 years

Q. A certain sum of money lent out at S.I. amount to Rs. 690 in 3 years and Rs. 750 in 5 years. Find the sum lent.

a) Rs. 600 b) Rs. 556
c) Rs. 660 d) Rs. 663

SOLVED EXAMPLES

1.Find the simple interest on Rs 68000 at $16\frac{2}{3}$ % per annum for 9 month

a) 8000 b) 8500
c) 9000 d) 8300

2. Find the simple interest on Rs 3000 at $6\frac{1}{4}$ % per annum for the period from 4th February 2005 to 18th April 2005

a) 27.5 b) 35.7
c) 37.5 d) 32.5

3. A simple interest on Rs 1820 from March 9th 2003 to May 21st 2003 at $7\frac{1}{2}$ %

a) 27.3 b) 33.7
c) 28.7 d) 23.7

4. At the rate of $8\frac{1}{2}$ % PCPA Simple interest a sum of Rs 4800 will have how much interest in 2 years 3 months?

a) 918 b) 618
c) 718 d) 218

5. A person borrowed some money at the rate of 6% per annum for the 2years. At the rate of 9% per annum for the rate of 3 years and at the rate of 14% per annum for the period behind 5 years. If he pays a total of Rs 11400 at the end of 9 years. How much money did he borrowed?

a) 12000 b) 14000
c) 15000 d) 16000

6. A sum of Rs 1550 is lent out into two parts one at 8% and another at 6% if the total annual income is Rs 106. Find the money lent at each rate?

a) 650,900 b) 550 1000
c) 750, 800 d) 850, 700

7. The interest earned on Rs 15000 in 3 years at simple interest is 5400. Find the rate percent per annum?

a) 10% b) 12%
c) 15% d) 14%

8) Mr.Sharma takes a loan of Rs 25000 and repays an amount of Rs 31000 at the end of 2 years. What is the rate of Simple Interest at which he repays the loan?

a) 14% b) 12%
c) 10% d) 21%

9) Anil invested an amount for 3 years at a simple interest rate of 9 PCPA, he got an amount of Rs 19050 at the end of 3 years. What principle amount did he invest?

a) 10000 b) 15000
c) 12000 d) 14000

10) A person borrows Rs 5000 for 2 years at 4 pcpa Simple Interest immediately he lends to

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another person at $6\frac{1}{4}$ % per annum for 2 years. Find his gain in the transaction per year?
a) 225 b) 112.5
c) 128 d) 122.5

11) in how many years Rs 150 will produce the some interest at 8% as Rs 800 produced in 3 years at $4\frac{1}{2}$%?
a) 10 b) 12
c) 9 d) 14

12) What Should be the simple interest obtained on an amount of Rs 5760 at the rate of 6pcpa after 3 years?
a) 1037.8 b) 1036.8
c) 1036.7 d) 1035.8

13) Mrs Suchitra deposits an amount of Rs 24000 to obtain a simple interest at the rate of 14pcpa for 8 years. What total amount will Mrs Suchitra will get at the end of 8 years?
a) 26880 b) 50880
c) 28880 d) 50660

14) Mrs Anusha deposits an amount of Rs 35000 to obtain a simple interest at the rate of 15% pcpa for 4 years. What total amount will she got at the end of 4 years ?
a) 21000 b) 56000
c) 28000 d) 42000

15) An amount of 45000 become 77400 on simple interest in 8 years. What is the rate of interest pcpa?
a) 4% b) 8%
c) 9% d) 12%

Practice Questions

Q. 1. A sum of money amounts to Rs. 6000 in 2 years. If the interest on the sum for that time is Rs. 1000. Find the rate of simple interest.
a) 20% b) 26%
c) 10% d) 15%

Q. 2. A certain sum of money invested at 16% per annum for 8 months will yield a simple interest of Rs. 1280?
a) Rs. 11000 b) Rs. 13000
c) Rs. 12000 d) Rs. 14000

Q. 3. A person borrowed Rs. 500 at the rate of 5% per annum simple interest. What amount will he pay to clear the debt after 4 years?
a) Rs. 600 b) Rs. 500
c) Rs. 400 d) Rs. 700

Q. 4. In what time would a sum of money amount to four times itself at 15% simple interest per annum?
a) 28 years **b) 20 years**
c) 23 years d) 21 years

Q. 5. A sum of Rs. 2400 amounts to Rs. 3264 in four years at a certain rate of simple interest. If the rate of interest is increased by 1%, then in the same time, find the amount of the same sum.
a) Rs. 3340 b) Rs. 3380
c) Rs. 3350 **d) Rs. 3360**

Q. 6. Divide the sum of Rs. 3600 into two parts so that interest on the first for 3 years at 5% may be equal to the interest on the second part for 4 years at $6\frac{1}{4}$%.
a) Rs. 1134 b) Rs. 1139
c) Rs. 1350. d) Rs. 1136

Q. 7. The interest on a certain deposit at 4.5% is Rs. 202.50 in one year. How much will the additional interest in one year be on the same deposit at 5% p.a.?
a) Rs. 22.10 **b)Rs. 22.50.**
c) Rs. 22.40 d) Rs. 22. 90

Q. 8. Rs. 2189 are divided into three parts such that their amounts after 1, 2 and 3 years respectively

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may be equal. The rate of interest being 4% p.a. Find the ratio between these parts.

a) $\frac{1}{26} : \frac{1}{27} : \frac{1}{28}$. b) $\frac{1}{25} : \frac{1}{22} : \frac{1}{21}$.

c) $\frac{1}{29} : \frac{1}{20} : \frac{1}{24}$. d) $\frac{1}{21} : \frac{1}{27} : \frac{1}{28}$.

Moderate Level Practice Question

1.What principal with yield Rs. 600 as simple interest at 12% p.a. in 1 year?

a) Rs. 4000 **b) Rs. 5000**

c) Rs. 6000 d) Rs. 8000

2. At what time will the interest on a sum of money will equal to the principal at 10% per annum?

a) 10 years b) 5 years

c) 4 years d) $2\frac{1}{2}$ years

3. What principal will yield Rs. 120 as simple interest at 6% p.a. in 10 years?

a) Rs. 100 b) Rs. 125

c) Rs. 150 **d) Rs. 200**

4. Simple interest on Rs. 5000 for 5 years at 10% p.a. is equal to

a) Rs. 250 b) Rs. 2000

c) Rs. 2500 d) Rs. 2800

5. In how many years will the sum of money double itself at 10% per annum simple interest?

a) 4 years b) 5 years

c) 8 years **d) 10 years**

6. What sum of money will produce an interest of Rs.80 in 5 years at the rate of 5% per annum?

a) Rs.320 b) Rs.380

c) Rs.420 d) Rs.500

7. The Capital of Rs.40000 from 15th January 1992 to 9th June 1992 at 13% per annum will be

a) Rs.42180 b) Rs.42500

c) Rs.42000 **d) Rs.42080**

8. What sum will amount to Rs.1212 in 3 years and 4 months at 6% simple interest per annum?

a) Rs.990 b) Rs.1000

c) Rs.1010 d) Rs.1050

9. At the rate of 6% p.a. simple interest, a sum of Rs.2500 will earn how much interest by the end of 5 years?

a) Rs.150 b) Rs.700

c) Rs.750 d) Rs.3250

10. Three years back, a sum of money was remitted in the bank at 12% p.a. simple interest. The accounts are now cleared, the bank paying a sum of Rs.6800. The sum originally invested was

a) Rs.5000 b) Rs.5200

c) Rs.550 d) Rs.5700

11. In what time will Rs.500 give Rs.50 as interest at the rate of 5% p.a. simple interest?

a) 2 years b) $2\frac{1}{2}$ years

c) 3 years d) 4 years

12. Rs.8000 becomes Rs.10000 in two years at simple interest. The amount that will become Rs.6875 in 3 years at the same rate of interest is

a) Rs.4850 **b) Rs.5000**

c) Rs.5500 d) Rs.5275

13. Priyansh borrowed Rs. 5000 from Sudhakar at simple interest. After 3 years Sudhakar got Rs. 300 more than what he had given to Priyansh. The rate of interest per annum is

a) 2% b) 5%

c) 8% d) 10%

14. Rs. 800 amounts to Rs. 920 in 3 years at simple interest. If the interest rate is increased by 3%, it would amount to how much?

a) Rs.992 b) Rs.1056

c) Rs.1112 d) Rs.1182

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15. Simple interest on a certain sum is 16 over 25 of the sum. Find the time if rate percent and time are equal.
a) 4 years **b) 8 years**
c) 16 years d) 5 y

16. Out of a certain sum, 1/3rd is invested at 3%, 1/6th at 6% and the rest at 8%. If the simple interest for 2 years from all these investments amounts to Rs. 600, the original sum is
a) Rs. 3500 b) Rs. 4000
c) Rs. 4500 **d) Rs. 5000**

17. The amounts of a certain sum of money with simple interest at a certain rate of interest are Rs. 2660 in 3 years and Rs. 3100 in 5 years. The sum of money is
a) Rs.1500 b) Rs.1800
c) Rs.2000 d) Rs.2100

18. The amounts of a certain sum of money with simple interest at a certain rate of interest are Rs. 2660 in 3 years and Rs. 3100 in 5 years. The rate of interest is
a) 11% p.a. b) 12% p.a.
c) 12.5% p.a. d) 15% p.a.

19. The annual instalment that will discharge a debt of Rs. 4,200 due in 5 years at 10% simple interest is
a) Rs. 500 a year **b) Rs. 700 a year**
c) Rs. 800 a year d) Rs. 900 a year

20. On a certain sum, the simple interest at the end $6\frac{1}{4}$ years becomes $\frac{3}{8}$ of the sum. The rate percent is
a) 7% **b) 6%**
c) 5% d) $5\frac{1}{2}$%

21. The rate of which a sum becomes four times of itself in 15 years at S.I. will be
a) 15% b) $17\frac{1}{2}$%
c) 20% d) 25%

22. The rate of simple interest on a sum of money is 6% p.a. for first 3 years, 8% p.a. for the next five years and 10% p.a. for the period beyond 8 years. If the simple interest accrued by the sum for a period for 10 years is Rs. 1560. The sum is
a) Rs. 1500 **b) Rs. 2000**
c) Rs. 3000 d) Rs. 5000

23. The annual payment of Rs. 80 in 5 years at 5% p.a. simple interest will discharge a debt of
a) Rs. 400 **b) Rs. 440**
c) Rs. 420 D) Rs. 450

24. How long will it take a sum of money invested at 5% p.a. S.I. to increase its value by 40%?
a) 5 years b) 6 years
c) 7 years **d) 8 year**

25. If we divide Rs. 10000 into two parts such that the simple interest on one at 10% for 4 years may be double to that on the other at 12% for $2\frac{1}{2}$ years. Then find the sum lent at 12% rate is
a) Rs. 6000 **b) Rs. 4000**
c) Rs. 5000 d) Rs. 4400

26. x, y, z are three sums of money such as y is the simple interest on x and z is the simple interest on y for the same time and rate. The relation between x, y and z is
a) xyz = 1 b) $x^2 = yz$
c) $y^2 = xz$ d) $z^2 = xy$

27. Rs. 793 is divided into three parts such that their amounts after2, 3 and 4 years may be equal, the rate of interest being 5%. Find the ratio between these parts.
a) $\frac{1}{110} : \frac{1}{115} : \frac{1}{120}$ b) $\frac{1}{11} : \frac{1}{15} : \frac{1}{12}$
c) 110 : 115 : 120 d) $\frac{1}{10} : \frac{1}{55} : \frac{1}{77}$

28. Divide Rs. 2379 into three parts so that their amounts after 2, 3 and 4 years respectively may be equal, the rate of interest being 5% per annum.

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a) Rs. 828, Rs. 792, Rs. 759
b) Rs. 800, Rs.850, Rs. 729
c) Rs. 816, Rs. 799, Rs. 784
d) Rs. 688, Rs. 882, Rs. 809

29. A sum was put at a certain rate of interest for 3 years. Had it been put at 2% higher rate, it would have fetched Rs.72 more. The sum is
a) Rs. 1250 b) Rs. 1400
c) Rs. 1200 d) Rs. 1500

30. Rs. 2000 amounts to Rs. 2600 in 5 years at simple interest. If the interest rate is increased by 3%, it would amount to
a) Rs. 2900 b) Rs. 3200
c) Rs. 3600 d) Rs. 3800