



# MATHS

**BOOKS - ARIHANT PUBLICATION**

**JHARKHAND**

**SIMPLE INTEREST AND COMPOUND  
INTEREST**

**Solved Examples**

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

(a) Rs. 45000

(b) Rs. 48000

(c) Rs. 56000

(d) Rs. 40000

A. Rs. 45000

B. Rs. 48000

C. Rs. 56000

D. Rs. 40000

**Answer: B**



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2. The amount of each instalment will discharge on debit of Rs. 3220 due In 4 yr at 10% simple interest is

(a)Rs. 700

(b)Rs. 1000

(c)Rs. 500

(d)Rs. 900

A. Rs. 700

B. Rs. 1000

C. Rs. 500

D. Rs. 900

**Answer: A**



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3. The amount and the compound Interest on Rs. 24000 compounded semi-annually for  $1\frac{1}{2}$  yr at the rate of 10% per annum are

A. Rs. 27000, Rs. 3774

B. Rs. 27783, Rs. 3583

C. Rs. 27000, Rs. 3780

D. Rs. 27783, Rs. 3783

**Answer: D**



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4. The amount and the compound interest on Rs. 100000 compounded quarterly for 9 months to the rate of 4% per annum is

A. ₹ 103030.10, ₹3030.10

B. ₹ 103300.10, ₹3030.20

C. ₹ 103030.10, ₹ 3031.10

D. ₹ 103300.10, ₹ 3132.20

**Answer: A**



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5. Calculate the compound interest on Rs. 5000 compounded annually for 2 yr and 6 months at the of 10% per annum.

A. ₹ 1252.50

B. ₹ 1352.50

C. ₹ 1351.50

D. ₹ 1355.50

**Answer: B**



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6. The approximate compound interest on Rs. 5000 for 4 yr of the rate of interest is 10% per annum for the first two years and 15% for the next two years is

(a) ₹ 3001

(b) ₹ 2001

(c) ₹ 5001

(d) ₹ 3021

A. ₹ 3001

B. ₹ 2001

C. ₹ 5001



D. ₹ 3021

**Answer: A**



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7. The difference between the compound interest and the simple interest on a certain sum at 12% per annum for 2 yr is Rs. 90. The sum is equal to

A. ₹ 6260

B. ₹ 6350

C. ₹ 6250

D. ₹ 6255

**Answer: C**



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**8.** Given that carbon:  $^{14}\text{C}_{14}$  decays at a constant rate in such a way that it reduces to 50% in 5568 yr. Then, the age of an old

wooden piece In which the carbon Is only 12.5% of the original Is equal to

A. ₹ 16704

B. ₹ 16705

C. ₹ 16604

D. ₹ 16606

**Answer: A**



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1. The amount on a sum of Rs. 400 for 3 yr at simple interest at 5% per annum is

A. ₹ 460

B. ₹ 415

C. ₹ 435

D. ₹ 412

**Answer: A**



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

A. 30 %

B. 10 %

C. 2.5 %

D. 5 %

**Answer: C**



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3. The difference of simple interest of 13% per annum and 12% per annum of a sum in 1 yr is Rs. 110. Then, the sum is

A. ₹ 12000

B. ₹ 13000

C. ₹ 11000

D. ₹ 16000

**Answer: C**



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4. The simple interest on a sum of money at 10% per annum for 6 yr is half the sum. Then, the sum is

A. Rs. 5000

B. not possible

C. Rs. 4000

D. Rs. 6000

**Answer: B**



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5. The simple interest on a sum of money for 3 yr at  $6\frac{2}{3}\%$  per annum is Rs. 6750. The compound interest on the same sum at the same rate of interest for the same period will be

A. Rs. 7200

B. Rs. 7210

C. Rs. 7120

D. Rs. 7012

**Answer: B**





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6. A certain sum lent out at simple interest amounts to Rs. 575 in 3 yr and to Rs. 625 in 5 yr. Then, the rate of interest is

A. 3 %

B. 5 %

C. 4 %

D. 7 %

**Answer: B**



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7. The simple interest on a certain sum for 3 yr at 4% per annum is Rs. 48. The principal is

A. Rs. 550

B. Rs. 500

C. Rs. 450

D. Rs. 400

**Answer: D**



8. The difference between the simple and the compound interest (compounded annually) on Rs. 1250 for 2 yr at 8% per annum will be

A. Rs. 18

B. Rs. 2

C. Rs. 8

D. Rs. 4

**Answer: C**



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9. The amount of a certain sum at compound interest for 2 yr at 5% is Rs. 4410. The sum is

A. Rs. 4000

B. Rs. 4200

C. Rs. 3900

D. Rs. 3800

**Answer: A**



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10. Consider the following statements. If a money is loaned at simple interest then the money gets doubled in 5 years if the rate of interest is  $16\frac{2}{3}\%$   
money gets doubled in 5 years if the rate of interest is  $20\%$   
money becomes four times in 10 years if it gets doubled in 5 years of these statements ∴

A. I and III

B. Only II

C. Only III

D. II and III

**Answer: B**



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**11.** If certain sum is doubled in 8 yr on simple interest, in how many years will it be 4 times?

A. 20 yr

B. 12.5 yr

C. 24 yr

D. None of these

**Answer: C**



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**12.** A sum of money doubles itself in 10 yr. In how many years would it triple itself?

A. 20yr

B. 10yr

C. 30yr

D. None of these

**Answer: A**



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**13.** The sum of money will amount to Rs. 900 in 4 yr at 5% per annum on simple interest is

A. Rs. 1250

B. Rs. 900



C. Rs. 750

D. None of these

**Answer: C**



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**14.** In what time the simple interest on a sum of money be  $\frac{3}{8}$  of the principal with rate of interest  $3\frac{1}{8}\%$ ?

A. 12 yr

B.  $25/8$  yr

C. 5 yr.

D. 15 yr

**Answer: A**



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**15.** Out of a sum of Rs. 625, a part was lent at 5% SI and the other at 10% SI. If the interest on the first part after 2 years is equal to the

interest on the second part after 4 years , then  
the second sum (in Rs. ) is :

A. Rs. 500

B. Rs. 625

C. Rs. 125

D. None of these

**Answer: C**



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**16.** A sum was put at simple interest at a certain rate for 2yr. If the sum had been put at 3% higher rate, it would have fetched Rs. 72 more. The sum is

A. Rs. 7200

B. Rs. 1200

C. Rs. 300

D. None of these

**Answer: B**



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17. The compound interest on Rs. 2000 for 1 yr at the rate of 8% per annum, when the interest is compounded semi-annually is

- A. Rs. 163.20
- B. Rs. 2163.20
- C. Rs. 2000
- D. None of these

**Answer: A**





**18.** The amount that Ram will pay on Rs. 8000 at the rate of 10% per annum compounded half-yearly for  $1\frac{1}{2}$  yr is

A. Rs. 9261

B. Rs. 8000

C. Rs. 4200

D. None of these

**Answer: A**



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19. A certain sum invested at 4% per annum compounded semi-annually amounts to Rs. 7803 at the end of 1 yr. Then, the sum is

A. Rs. 7803

B. Rs. 7500

C. Rs. 261

D. Rs. 10935

**Answer: B**



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20. Rs. 16000 invested at 10% per annum compounded semi-annually amounts to Rs. 18522. The period of investment is

A. 16 yr

B. 3 yr

C.  $1\frac{1}{2}$  yr

D. 2 yr

**Answer: C**





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21. Nagma invested Rs. 6000 in a company at compound interest compounded semi-annually. She receives Rs. 7986 after 18 months from the company, the rate of interest per annum is

A. 10 %

B. 12 %

C. 11 %

D. 20 %

**Answer: D**



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22. A sum of Rs. 25000 invested at 8% per annum compounded semi-annually amounts to Rs. 28121.60, Then, the time period is

A. 12 yr

B. 1 yr

C.  $1\frac{1}{2}$  yr

D. None of these

**Answer: C**



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**23.** A sum of *Rs.* 3, 200 invested at 10 % p.a. compounded quarterly amounts to *Rs.*3, 362.

Compute the time period.

A.  $\frac{1}{2}$  yr

B. 1 yr

C.  $\frac{3}{4}$  yr

D. None of these

**Answer: A**



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**24.** A sum amount to Rs. 9680 in 2 yr and to Rs. 10648 in 3 yr compounded annually, Then, the sum and rate of interest respectively are

A. Rs. 8000, 3%

B. Rs. 8000, 10%

C. Rs. 9000, 10%

D. Rs. 1064.8, 10%

**Answer: B**



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**25.** If the value of a machine depreciates by 10% of its value at the beginning of the year

and its present value is estimated as Rs. 10935,  
then its value 3 yr ago was

A. Rs. 15000

B. Rs. 12000

C. Rs. 11000

D. None of these

**Answer: A**



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