MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

SIMPLE INTEREST

Examples

1. Find the simple inerest on ₹ 2500 for 2 years 6 mounts at 6% per annum. Also find the

amount.

2. Find the simple inerest on ₹7200 at 5 % per annum for 8 months. Also find the amount.

A. $SI = $ ₹340 and amount $ = 8440$

B. $SI = $ ₹244 and amount $ = 9440$

C. $SI = $ ₹240 and amount $ = 7440$

D. $SI = $ ₹740 and amount $ = 9440$

Answer: C

3. Find the simple inerest on ₹ 4500 at 8% per annum for 73 days . Also find the amount.

    A. SI=₹76 and amount=₹4577.

    B. SI=₹92 and amount=₹4562.

    C. SI=₹82 and amount=₹5572.

    D. SI=₹72 and amount=₹4572.

Answer: D

4. What sum will amount to ₹5525 at 10% per annum simple interest in 3 years?

5. At what rate per cent per annum will ₹4500 amount to ₹5715 in 3 years?

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6. In what time will ₹3600 amount to ₹4320 at 8% per annum simple interest?

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7. At which rate percent per annum simple interest will a sum treble itself in 16 years? 12% (b) 10.5% 11.5% (d) 12.5%

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8. The simple interest on a certain sum is $\dfrac{16}{25}$ of the sum. If the rate percent annum and the time are numerically equal, then the rate percent is 8% (b) 4% 6% (d) 12%

9. a sum of money at simple interest doubles itself in 8 years 4 mounths.In how much time will it treble itself?

10. A sum of money lent at simple interest amounts to Rs 3224 in 2 years and Rs 4160 in 5 years.Find sum and the rate of interest.

11. The simple interest on a certain sum of 3 years at 8% per annum is ₹96 more than the simple interest on the same sum for 2 years at 9% annum. Find the sum

12. Divide ₹12000 onto two parts such that the simple interest on the first part for 2 years at 6% per annum is equal to the simple interest on the second part for 3 years at 8% per annum.

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Exercise 12 A

1. Find the Simple interest and the amount when :

Principal=₹6400,rate =6%p.a and time =2 years.

2. Find the Simple interest and the amount when :

Principal=₹2650,rate =8%p.a and time =`2.1/2 years.

3. Find the Simple interest and the amount when :

Principal=₹1500,rate =12%p.a and time =3 years 3mounths

4. Find the Simple interest and the amount when :

Principal=₹9600 ,rate =7.1/2%p.a and time =5 months.

5. Find the Simple interest and the amount when :

Principal=₹5000,rate =9%p.a and time =146 days.

6. Find the time when:

Principal=₹6400, SI=₹1152 and rate=₹6%p.a

7. Find the time when:

Principal=₹9540, SI=₹1908 and rate=₹8%p.a

8. Find the time when:

Principal=₹5000, amount=₹6450 and rate=₹12%p.a

9. Find the rate when:

Principal=₹8250 , SI=₹1100 and time=2 years

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10. Find the rate when:

Principal=₹5200 , SI=₹975 and time=$2\dfrac{1}{2} years$

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11. Find the rate when:

Principal=₹3560 , SI=₹4521.20 and time=3 years

12. Shanta borrowed ₹6000 from the state bank of india for 3 years 8 mounts at 12% per annum. What amount will clear off her debt?

13. Hari borrowed ₹12600 from a moneyleender at 15% per annum simple interest. After 3 years, he paid ₹ 7070 and gave a goat to clear of the debt. What is the cost of the goat?

14. The Simple interest on a certain sum for 3 years at 10% per annum is ₹829.50. Find the sum.

15. A sum when reckond at $7 \cdot \left(\dfrac{1}{2}\right)\%$ per annum amount to ₹3920 in 3 years. Find the sum.

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16. A sum of money put at 11% per annum aomunts to ₹ 4491 in 2 years 3 months what will it amount to in 3 years at the same rate ?

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17. A sum of money investad at 8% per anum amount to ₹ 12122 in 2 years what will it amount to in 2 years 8 months at 9% per annum?

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18. At what rate per cent per annum will ₹ 3600 amount to ₹ 4734 in 3.1/2 years?

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19. If ₹ 640 amounts to ₹ 768 in 2 years 6 months what will ₹ 850 amount to in 3 years at the same rate per cent per annum

20. In what time will ₹5600 amount to ₹6720 at 8% per annum ?

21. A sum of money becomes 8/5 of itself in 5 years at a cartain rate of simple interest find the rate of interest

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22. a sum of money lent at simple intrerest amount to ₹ 783 in 2 years and to ₹ 837 in 3 years find the sum and the rate per cent per annum

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23. A sum of money lent at simple interest amount to ₹ 4745 in 3 years and to ₹ 5475 in 5 years find the sum and the rate per cent per annum

24. Divide ₹ 3000 into two parts such that the simple interest on the first part for 4 years at 8% per annum is equal to the simple interest

on the second part for 2 years at 9% per annum.

25. Divide ₹ 3600 into two parts such that if one part be lent at 9% per annum and the other at 10% per annum the total annual income is ₹ 333

1. The simple interest on $Rs6250$ at 4% per annum for 6 months is

    A. $Rs125$

    B. $Rs150$

    C. $Rs175$

    D. $Rs135$

Answer: A

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2. A sum amounts to ₹3605 in 2019 days at 5% per annum simple interest. The sum is

    A. ₹3250

    B. ₹3500

    C. ₹3400

    D. ₹3550

Answer: B

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3. At aimple interest a sum become $\frac{6}{5}$ of itself in $2\frac{1}{2}$ years. The rate of interest per annum is

A. 6 %

B. $\frac{7.1}{2}$ %

C. 8 %

D. 9 %

Answer: C

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4. In what time will ₹8000 amount to ₹8360 at 6% per annum simple interest?

A. $8 months$

B. $9 months$

C. $\dfrac{1.1}{4} years$

D. $\dfrac{1.1}{2} years$

Answer: B

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5. At what rate per cent per annum simple interest will a sum double itself in 10 years?

A. 8 %

B. 10 %

C. 12 %

D. $\dfrac{12.1}{2}$ %

Answer: B

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6. The Simple interest at x% per annum for x years will be ₹ x on a sum of

A. $₹x$

B. $₹100x$

C. $₹\left(\dfrac{100}{x}\right)$

D. $₹\left(\dfrac{100}{x^2}\right)$

Answer:

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7. The simple interest on a sum for 5 years is $\frac{2}{5}$ of the sum. The rate per cent per annum is

A. 10 %

B. 8 %

C. 6 %

D. $\frac{12.1}{2}$ %

Answer: B

8. A borrows ₹ 8000 at 12% per annum simple interest and B borrows ₹ 9100 at 10% per annum simple interest. In how many years will their amounts be equal?

    A. 18 years

    B. 20 years

    C. 22 years

    D. 24 years

Answer:

9. A sum of ₹ 600 amounts to ₹720 in 4 years.

What will it amount to if the rate of interest is

incereased by 2%?

    A. ₹724

    B. ₹648

    C. ₹768

    D. ₹792

Answer:

10. If x, y, z are three sums of money such that y is the simple interest on x, z is the simple interest on y for the same time and at the same rate of interest, then we have $x^2 = yz$ (b) $y^2 = xz$ (c) $z^2 = xy$ (d) $xyz = 1$

A. $XYZ = 1$

B. $Z^2 = XY$

C. $X^2 = YZ$

D. $y^2 = zx$

Answer:

11. In how much time would the simple interest on a certain sum be 0.125 times the principal at 10% per annum?

A. $1\dfrac{1}{4}years$

B. $1\dfrac{1}{3}years$

C. $2\dfrac{1}{4}years$

D. $2\dfrac{3}{4}years$

Answer: A

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12. At which sum will the simple interest at the rate of $\dfrac{3.3}{4}$ per annum be ₹ 210in `2.1/3 years?

A. ₹1580

B. ₹2400

C. ₹2800

D. none of those

Answer:

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Test Perper 12 A

1. Find the Simple interest on ₹ 6300 at 8% per annum for 8 months

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2. What sum will amount to ₹6600 in 2 year at 10% per annum simple interest?

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3. At what rate per cent per annum simpele interest will ₹ 3625 amount to ₹ 4495 in 2 years ?

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4. In what time will ₹ 3600 amount to ₹ 4410 at 9% per annum simple interest?

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5. at what rate per annum simple interest will a sum double it self in 2 years?

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6. A sum of money becomes $\frac{4}{3}$ of itself in 6 years at a cartain rate of simple interest find the rate of interest.

7. A sum amounts to ₹3626 in 219 days at 6% per annum simple interest . The sum is

   A. ₹3000

   B. ₹3200

C. ₹3500

D. ₹3600

Answer:

8. The simple interset on a sum for 5 years is $\frac{3}{5}$ of the sum. The rate per cent per annum is

A. 8 %

B. 10 %

C. 12 %

D. $\dfrac{12.1}{2}$ %

Answer: C

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9. At what rate per cent per annum simple interest will a sum double itself in 10 years?

A. 8 %

B. 10 %

C. 12 %

D. $\dfrac{12.1}{2}$ %

Answer: B

Test Perper 12 B

1. At simple interest s sum become $\dfrac{49}{40}$ itself in $\dfrac{2.1}{2}$ years. The rate of interest per annum is

A. 7 %

B. 8 %

C. 9 %

D. 12 %

Answer:

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2. In what time will ₹ 6000 amount to ₹6360 at 8% per annum simple interest?

A. $9 mouths$

B. $8 mouths$

C. $\dfrac{1.1}{4} years$

D. $\dfrac{1.1}{2} years$

Answer:

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3. The Simple interest at x% per annum for x years will be ₹ x on a sum of

A. ₹x

B. ₹$10x$

C. ₹$100x$

D. ₹$\left(\dfrac{100}{x} \right)$

Answer:

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Test Perper 12 C

1. Fill in the blanks.

(1) $p = \dfrac{100 \times (\ldots\ldots)}{R \times T}$

(2) $R = \dfrac{100 \times SI}{(\ldots\ldots\ldots) \times T}$

(3) At (....)% per annum simple interest a sum double itself in 10 years.

(4) At simple interest a sum becomes $\dfrac{6}{5}$ of itself in 2. $\dfrac{1}{2}$ years.The rate of interset is (.....)% per annum.

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Test Perper 12 D

1. Write 'T' for true and 'F' for false for each of the following:

Simple interest of x for x years is x Then the rate of interest is x% per annum.

$$\text{Rate} = \frac{100 \times SI}{P \times T}$$

A sum doubles itself at simple interest at 10% per annum in 10 years.

Simple interest on 1000 at 5% per annum for 73 days is 10.

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