



MATHS

BOOKS - RS AGGARWAL MATHS (HINGLISH)

SIMPLE INTEREST

Examples

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

amount.



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2. Find the simple interest 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



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3. Find the simple interest 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



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



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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 $\frac{16}{25}$ 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%



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



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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.



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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



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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.



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2. Find the Simple interest and the amount
when :

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



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3. Find the Simple interest and the amount
when :

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



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4. Find the Simple interest and the amount
when :

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



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5. Find the Simple interest and the amount

when :

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

days.



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6. Find the time when:

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



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7. Find the time when:

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



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8. Find the time when:

Principal=₹5000, amount=₹6450 and

rate=₹12%p.a



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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= $2\frac{1}{2}$ years



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11. Find the rate when:

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



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



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13. Hari borrowed ₹12600 from a moneylender 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?



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





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15. A sum when reckond at $7 \cdot \left(\frac{1}{2}\right)\%$ 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 invested at 8% per annum 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 $3\frac{1}{2}$ 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



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



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21. A sum of money becomes $\frac{8}{5}$ of itself in 5 years at a certain rate of simple interest find the rate of interest



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22. a sum of money lent at simple interest 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



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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.



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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



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Exercise 12 B

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 simple interest a sum becomes $\frac{6}{5}$ 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. $\frac{1.1}{4}$ *years*

D. $\frac{1.1}{2}$ *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. $\frac{12.1}{2}$ %

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. ₹ $\left(\frac{100}{x}\right)$

D. ₹ $\left(\frac{100}{x^2}\right)$

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



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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:



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

What will it amount to if the rate of interest is increased 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

$$x^2 = yz \quad (b) \quad y^2 = xz \quad (c) \quad z^2 = xy \quad (d) \quad xyz = 1$$

A. $XYZ = 1$

B. $Z^2 = XY$

C. $X^2 = YZ$

D. $y^2 = zx$

Answer:



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

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

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

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

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

Answer: A



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12. At which sum will the simple interest at the rate of $\frac{3.3}{4}$ per annum be ₹ 210 in $2\frac{1}{3}$ 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 simple 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 certain rate of simple interest find the rate of interest.



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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:



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8. The simple interest 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. $\frac{12.1}{2}$ %

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

Answer: B



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Test Perper 12 B

1. At simple interest a sum becomes $\frac{49}{40}$ itself in $\frac{2.1}{2}$ 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. *9months*

B. *8months*

C. $\frac{1.1}{4}$ *years*

D. $\frac{1.1}{2}$ *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. ₹ $\left(\frac{100}{x}\right)$

Answer:



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Test Perper 12 C

1. Fill in the blanks.

$$(1) p = \frac{100 \times (\dots\dots)}{R \times T}$$

$$(2) R = \frac{100 \times SI}{(\dots\dots) \times T}$$

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

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



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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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