Time Taken

00:00

Mark Gained

1.What is the simple interest on a sum of Tk. 700 if the rate of interest for the first 3 years is 8% per annum and for the last 2 years is 7.5% per annum?

a. 269

b. 283

c. 273

d. 280

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Explanation: Ans: 273. Solution: As interest is calculated as simple interest So, we can add up rates for all given 5 years and calculate it easily i.e. For the five years rate = (8 × 3 + 7.5 × 2) = 39% Now, 700 = 39% = 973 Interest = Tk. 273

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

a. R

b. 100R

c. 100/R

d. 100/R^2

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Explanation: Ans: 100/R Sum = (100 x SI) / (R x T) = (100 x R) / (R x R) = 100/R

3.Rasel obtained an amount of Tk. 8376 as simple interest on a certain amount at 8 p.c.p.a. after 6 years. What is the amount invested by Rasel?

a. 16450 Tk.

b. 17450 Tk.

c. 18470 Tk.

d. 19472 Tk.

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Explanation:

imple interest, I = Tk. 8376
Rate of interest, r = 8%
Time, n = 6 years

We know,
I = Pn(r/100)
Or, P = 100I/nr
= (8376 × 100)/(6 × 8)
∴ P = 17450 Tk.

4.Interest obtained on a sum of Tk. 5000 for 3 years is Tk. 1500. Find the rate percent.

a. 10%

b. 15%

c. 20%

d. 25%

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Explanation:

Here,
p = Tk. 5000
n = 3 years
I = Tk. 1500

Now,
I = pn(r/100)
⇒ 1500 = 5000 × 3 × (r/100)
⇒ r = 10%

5.How much time will it take for an amount of Tk. 450 to yield Tk. 81 as interest at 9% per annum of simple interest?

a. 2 years

b. 3 years

c. 4 years

d. 5 years

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Explanation:

I = Pnr
⇒ 81 = 450 × n × 9/100
∴ n = (81 × 100)/(450 × 9)
= 2 years

6.S.I. on Tk. 1500 at 7% per annum for a certain time is Tk. 210. Find the time.

a. 1 years

b. 2 years

c. 3 years

d. 4 years

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Explanation:
P = 1500, r = 7%, I = 210, n = ?

n = I/(Pr)
= (210 × 100)/(1500 × 7)
= 2 years

7.A sum of money amounts to Tk. 21000 in 2 years at 20% simple interest per annum. Find the sum.

a. 14000

b. 15000

c. 16000

d. 17000

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Explanation:
Total interest in 2 years = 20% + 20% = 40%

ATQ, 140% = 21000
1% = 21000/140 = 150
100% = 150 × 100 = 15000

So, The sum is Tk. 15000

or,

Here,
A = 21000, T = 2, R = 20%
⇒ A = P + SI
⇒ A = P + (P × R × T/100)
⇒ A = P [1 + (R × T/100)]
⇒ 21000 = P [1 + 0.4]
⇒ P = 21000/1.4
⇒ P = 15000
Thus, the required sum is Tk. 15000

8. If simple interest on a certain sum of money is Tk. 400 and the rate of interest per annum equals the number of years, then the rate of interest is-

a. 15%

b. 20%

c. 25%

d. 30%

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Explanation:

Let,
The rate of interest is x%
∴ Number of years is x

The interest of 1 year of 100 taka is x
∴ The interest of x years of 100 Taka is $x \times x = x^2$

ATQ,
$x^2 = 400$
∴ x = 20

∴ The rate of interest is 20%

9. In what time will the simple interest on 1200 Tk. at 4% per annum be the same as that on 600 Tk. at 8% per annum in 2 years?

a. 2 years

b. 3 years

c. 4 years

d. 5 years

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Explanation:

the interest of 600 Tk. at 8% per annum in 2 years is = 600 × 2 × 8%
= 96 Tk.

let, the time is n years.
I = 96 Tk.
P = 1200 Tk.
r = 4%

as we know,
I = Pnr
n = I / Pr
= 96 / (1200 × 4%)
= 2 years

10. A sum of money at simple interest amounts to Tk. 815 in 3 years and to Tk. 854 in 4 years. The sum is-

a. Tk. 689

b. Tk. 869

c. Tk. 698

d. Tk. 968

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Explanation:

Simple interest for 1 year = Tk. (854 - 815)
= Tk. 39

∴ Simple interest for 3 years = Tk.(39 × 3)
= Tk. 117

∴ Sum = (815 - 117)
= Tk. 698