# Simple Interest Questions for Bank Clerk Pre Exams.

## Simple Interest Quiz 8

Directions: Kindly study the following Questions carefully and choose the right answer:

**1. Virat has Rs. 9000. He gives this money to Mahendra on simple interest and after 4 years received the double amount. If the interest rate is 5% more than the previous, in how many years this amount will be doubled?**

A. $3\frac{1}{2}$ years B. 3 years C. $2\frac{1}{2}$ years D. $3\frac{1}{3}$ years E. None of these

**2. Shubhranshu deposited Rs 8000 at simple interest which amounted to Rs 9200 after 3 years. Had the interest been 2% more, how much amount she would have got?**

A. Rs 1680 B. Rs 9680 C. Rs 9272 D. Rs 2680 E. None of these

**3. Rajat lends Rs. 20,000 to two of his friends. He gives Rs.10,000 to the first at 15% p.a. simple interest. Rajat wants to make a profit of 20% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is**

A. 12% B. 16% C. 20% D. 25% E. None of these

**4. The SI on certain sum of money for 23 months at the rate of 7% per annum exceeds the SI on the same sum at 7% per annum for 19 months by Rs. 672. Then find the sum**

A. Rs. 16800 B. Rs. 28800 C. Rs. 24400 D. Rs. 18600 E. None of these

**5. The simple interest on a sum of money will be Rs. 500 after 10 years. If the principal is made four times after 5 years, what will be the total interest at the end of the tenth year?**

A. Rs. 650 B. Rs. 975 C. Rs. 1250 D. Rs. 1500 E. None of these

**6. Ravi invested Rs. 6000 in a scheme for 3 years which promised a certain percentage of simple interest on the sum. The interest offered was 5% for the first year, 7% for the second year and 9% for the third year. What was the amount that Ravi got after 3 years?**

A. 7180 B. 7260 C. 7490 D. 7630 E. None of these

**7. 12000 is divided into two amounts such that the simple interest on the first amount for 3 years at the rate 4% is equal to the simple interest on the second amount for 4 year at the rate 1%. What are the amounts?**

A. 4000, 8000 B. 6000, 6000 C. 3000, 9000 D. 5000, 7000 E. None of these

**8. A sum of 6400 was subdivided into two investments schemes in such a way that one part was lent at 6% simple interest and the second part was lent at 9% simple interest. If the interest on the second part after 6 years is equal to interest on the first part after 3 years. What is the first part.**

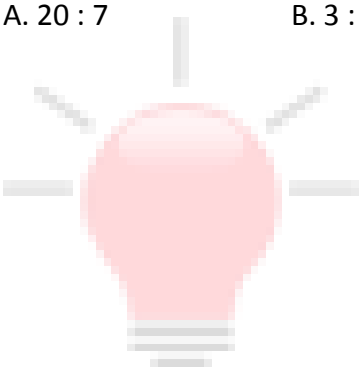
A. 1200 B. 1400 C. 1800 D. 2300 E. 4800

**9. In how many years will Rs. 12680 amounts to Rs. 35504 at a simple interest of 15% per annum?**

A. 15 years B. 13 years C. 12 years D. 11 years E. 14 years

**10. Seema has Rs. 5200 and she gives some money to Sumit at 8% p.a. on simple interest for 3 years and rest money to Seeta at a 5% p.a on simple interest for 2 years. If Seema get Rs. 688 of interest find the ratio between the money of Sumit and Seeta.**

A. 20 : 7 B. 3 : 10 C. 5 : 4 D. 4 : 3 E. None of these



**Correct Answers:**

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|
| D | B | D | B | C | B | C | E | C | B |

**Explanations:**

**1.**

S.I. = $\frac{P \times r \times t}{100}$

$9000 = \frac{9000 \times r \times 4}{100}$

r = 25%

New rate = 25 + 5 = 30%

9000 = 9000 × 30% × t

t = $3\frac{1}{3}$ years

Hence, option D is correct.



**2.** Amount = simple interest + principal

⇒ 9200 = simple interest + 8000

⇒ simple interest = 9200 – 8000

= Rs 1200

if r % be the rate of interest,

Then from, simple interest = $\frac{\text{principal} \times \text{rate\%} \times \text{time}}{100}$

$1200 = \frac{8000 \times r \times 3}{100}$

⇒ r = 5%

2% more interest that is 7% interest

simple interest = $\frac{8000 \times 7 \times 3}{100}$

= Rs 1680

thus amount he will get is Rs 8000 + Rs 1680 = Rs 9680

Hence, option B is correct.

**3.** Let Rajat lend the sum at x% rate to the second friend.
According to the question,
15% × 10000 + x% of 10000 = 20% of 20000
⇒ 15 × 100 + 100x = 20 × 200
⇒ 100x = 4000 – 1500
⇒ 100x = 2500 ⇒ x = 25
Hence, the required rate of interest is 25% p.a.
Therefore, Option D is correct.

**4.** Let the sum be P.

Then, $\frac{P \times 7 \times 23}{12 \times 100} - \frac{P \times 7 \times 19}{12 \times 100} = 672$

or, $161P - 133P = 672 \times 100 \times 12$

$\therefore P = \frac{672 \times 100 \times 12}{28} = \text{Rs. } 28800$

Hence, option (B) is correct.

**5.** Given that:
Simple interest for 10 years = Rs, 500
Therefore, SI for 1 year = Rs, 50
Therefore, SI for 5 years = Rs. 250
Now, if the principal is made four times, the interest will also become four times.
Therefore, SI for next 5 years = Rs, 250 x 4 = Rs, 1000
Hence, total interest after 10 years = 250 + 1000 = Rs, 1250
Therefore, option (C) is correct.

**6.** Total percentage charges on a sum over the years = 5% + 7% + 9% = 21%
Hence, Ravi will get total amount = (100 + 21) % of 6000 = 121% of 6000 = 7260.
Therefore, option (B) is correct.

**7.** Let the amounts be x and 12000 – x
Simple interest in 3 years at rate for 4% will be 12%
Similarly, at the rate of 1% it will be 4% in 4 years
Since the interests earned are equal, we can write the equation as:
12% of x = 4% of (12000 – x)
Solving the above equation we get, x = 3000
So, the amounts are 3000 and (12000 – 3000) = 9000
Hence, option (C) is correct.

**8.** Let the first part be X then second part would be (6400 – X)
Now, SI on first part after 3 years = SI on second part after 6 years

Using the formulae SI = $\frac{P \times R \times T}{100}$

We get,

$\frac{X \times 3 \times 6}{100} = \frac{(640 - X) \times 9 \times 6}{100}$

On simplifying we get,
X = 6400 × 3 – 3X
4X = 6400 × 3
X = 4800

Hence, option E is correct.

**9.** S.I. = 35504 – 12680 = Rs. 22824

∴ SI = $\frac{P \times R \times T}{100}$

∴ 22824 = $\frac{12680 \times 15 \times T}{100}$

∴ T = 12 years

Hence, option C is correct.



**10.** Let Seema gives Rs. X to Sumit and 5200 – X to Seeta.
Now, as per the question,
[X × 0.08 × 3] + [(5200 – X) × (0.05 × 2)] = 688
0.24X + 520 – 0.1X = 688
0.14X + 520= 688
x = (688 – 520) ÷ 0.14
x = 168 ÷ 0.14
x = 1200
2nd part = 5200 – 1200 = 4000 Rs.
Reqd. ratio = 1200 : 4000 = 3 :10
Hence, option B is correct.