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Test Preparation > Banking > Bank Clerk > Quantitative Aptitude > SI & CI

Types of Questions in Simple Interest - Part 2

LESSON 3 OF 5

LESSON-3

SIMPLE INTEREST

QUESTIONS TYPES-2

Type 3 → If amount is given sum to find out →

Q1→ A certain sum of money amounts to Rs 2613 in 6 years at 5% p.a. Find the sum?

Ans→ If A = 2613, Let P = x, SI = 2613 − x,
R = 5% p.a, T = 6 years

ATQ

$$= 2613 - x = \frac{x \times 5 \times 6}{100}$$

$$= 26130 - 10x = 3x$$

$$= 13x = 26130$$

$$x = 2010 = \text{Sum of money}$$

Q1→ A certain sum of money amounts to Rs 2613 in 5% p.a. In how many years will it amount to Rs 3015 at the same rate?

Ans → $A = 2613$, $R = 5\%$ p.a, $T = 6$ yrs

$P = x$, $SI = 2613 - x$

$$2613 - x = \frac{x \times 6 \times 6^3}{100}$$

$$= 26130 - 10x = 03x$$

$$\Rightarrow 13x = 26130 \Rightarrow x = 2010$$

Putting P's value = 2010 in second case

$A = 3015$, $SI = 3015 - 2010$

$= 1005$

$$1005 = \frac{2010 \times 5 \times T}{100} \Rightarrow T = 10 \text{ yrs}$$

Type 4 → Borrowed money is divided into 2 parts

Q1→ Rs 4000 is divided into two parts such that if one part be invested at 3% and other at 5% the annual interest from the investments is Rs 144. Find each part?

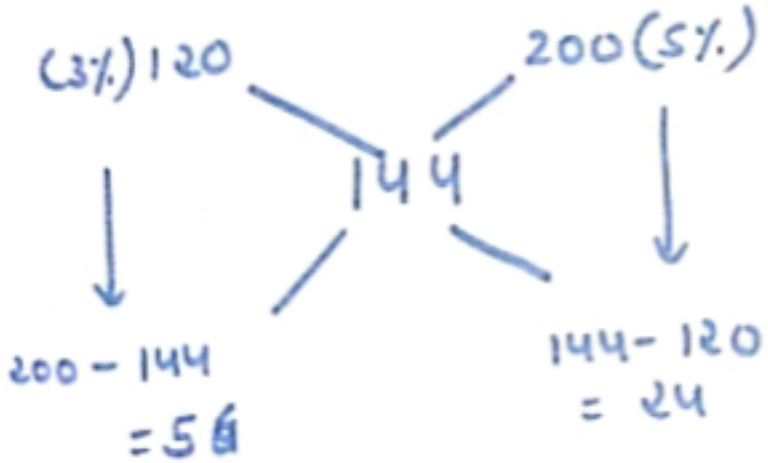
Ans→ T = 1 year,

Steps-1) find ~~total~~ interest at 5% and 3% of Total money

$$4000 \times \frac{5}{100} \times 1 = 200$$

$$4000 \times \frac{3}{100} \times 1 = 120$$

2) Now we will divide total SI



$= 56 : 24$

$= 7 : 3$

3) Divide Sum of money

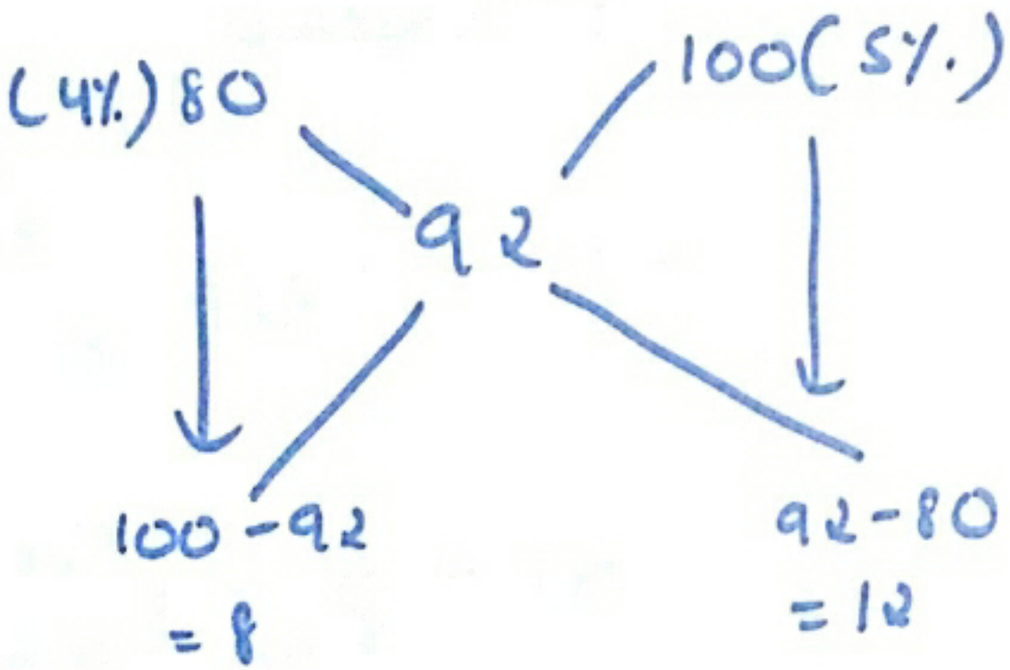
$4000 \times \frac{7}{10} = 2800$ — 3%

$4000 \times \frac{3}{10} = 1200$

Q10→ A man had Rs 2000, part of which he lent at 5%. and rest at 4%. The whole annual interest was Rs.92. How much did he lend at 5%?

Ans- $2000 \times \frac{5}{100} = 100$

$2000 \times \frac{4}{100} = 80$



$8 : 12 = 2 : 3$

$= 2000 \times \frac{3}{5} = Rs1200 = Ans.$