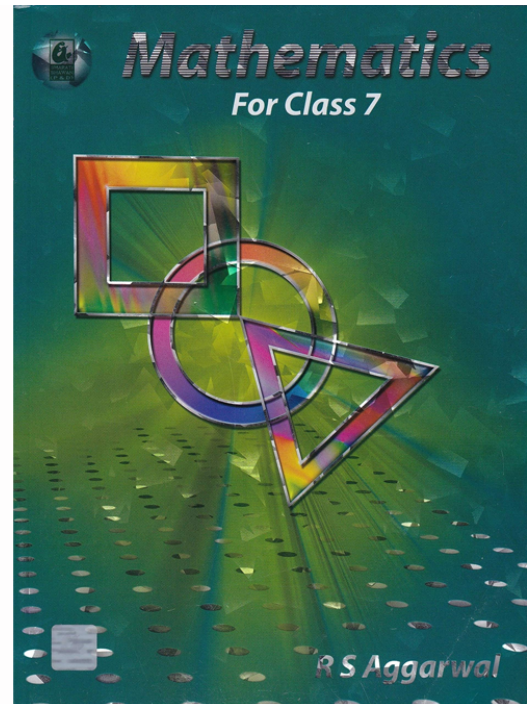


RS Aggarwal Solutions for Class 7 Maths Chapter 12–Simple Interest

Class 7 - Chapter 12 Simple Interest



For any clarifications or questions you can write to info@indcareer.com

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RS Aggarwal Solutions for Class 7 Maths Chapter 12–Simple Interest

Class 7: Maths Chapter 12 solutions. Complete Class 7 Maths Chapter 12 Notes.

RS Aggarwal Solutions for Class 7 Maths Chapter 12–Simple Interest

RS Aggarwal 7th Maths Chapter 12, Class 7 Maths Chapter 12 solutions

Ex 12A

Find the simple interest and the amount when :

Question 1.

Solution:

Principal (P) = Rs. 6400

Rate (r) = 6% p.a.

Time (t) = 2 years

$$\therefore \text{S.I.} = \frac{P \times r \times t}{100} = \frac{6400 \times 6 \times 2}{100} = \text{Rs. } 768$$

$$\begin{aligned} \therefore \text{Amount} &= P + \text{S.I.} \\ &= \text{Rs. } 6400 + \text{Rs. } 768 = \text{Rs. } 7168 \end{aligned}$$

Question 2.

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Solution:

Principal (P) = Rs. 2650

Rate (r) = 8% p.a.

$$\text{Time } (t) = 2\frac{1}{2} = \frac{5}{2} \text{ years}$$

$$\begin{aligned}\therefore \text{ S.I.} &= \frac{P \times r \times t}{100} = \frac{2650 \times 8 \times 5}{100 \times 2} \\ &= \text{Rs. } 530\end{aligned}$$

$$\begin{aligned}\therefore \text{ Amount} &= P + \text{S.I.} = \text{Rs. } 2650 + 530 \\ &= \text{Rs. } 3180\end{aligned}$$

Question 3.**Solution:**

Principal (P) = Rs. 1500

Rate (r) = 12% p.a.

$$\text{Time } (t) = 3 \text{ years } 3 \text{ month} = 3\frac{1}{4} = \frac{13}{4} \text{ years}$$

$$\begin{aligned}\therefore \text{ S.I.} &= \frac{P \times r \times t}{100} = \frac{1500 \times 12 \times 13}{100 \times 4} \\ &= \text{Rs. } 585\end{aligned}$$

$$\begin{aligned}\therefore \text{ Amount} &= P + \text{S.I.} \\ &= \text{Rs. } 1500 + \text{Rs. } 585 \\ &= \text{Rs. } 2085\end{aligned}$$

Question 4.**Solution:**

Principal (P) = Rs. 9600

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$$\text{Rate } (r) = 7\frac{1}{2}\% = \frac{15}{2}\%$$

$$\text{Time } (t) = 5 \text{ months} = \frac{5}{12} \text{ years}$$

$$\begin{aligned}\therefore \text{S.I.} &= \frac{P \times r \times t}{100} = \frac{9600 \times 15 \times 5}{100 \times 2 \times 12} \\ &= \text{Rs. } 300\end{aligned}$$

$$\begin{aligned}\therefore \text{Amount} &= P + \text{S.I.} \\ &= \text{Rs. } 9600 + \text{Rs. } 300 \\ &= \text{Rs. } 9900\end{aligned}$$

Question 5.

Solution:

Principal (P) = Rs. 5000

Rate (r) = 9% p.a.

$$\text{Time } (t) = 146 \text{ days} = \frac{146}{365} = \frac{2}{5} \text{ years}$$

$$\begin{aligned}\text{S.I.} &= \frac{P \cdot r \cdot t}{100} = \frac{5000 \times 9 \times 2}{100 \times 5} \\ &= \text{Rs. } 180\end{aligned}$$

$$\begin{aligned}\therefore \text{Amount} &= P + \text{S.I.} \\ &= \text{Rs. } 5000 + \text{Rs. } 180 \\ &= \text{Rs. } 5180\end{aligned}$$

Find the time when :

Question 6.

Solution:

Principal (P) = Rs. 6400

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S.I. = Rs. 1152

Rate (r) = 6% p.a.

$$\begin{aligned}\therefore \text{Time} &= \frac{\text{S.I.} \times 100}{\text{P} \times r} = \frac{1152 \times 100}{6400 \times 6} \\ &= 3 \text{ years}\end{aligned}$$

Question 7.

Solution:

Principal (P) = Rs. 9540

S.I. = Rs. 1908

Rate (r) = 8% p.a.

$$\begin{aligned}\therefore \text{Time} &= \frac{\text{S.I.} \times 100}{\text{P} \times r} = \frac{1908 \times 100}{9540 \times 8} = \frac{5}{2} \text{ years} \\ &= 2\frac{1}{2} \text{ years}\end{aligned}$$

Question 8.

Solution:

Amount (A) = Rs. 6450

Principal (P) = Rs. 5000

S.I. = A – P = Rs. (6450 – 5000) = Rs. 1450

Rate (r) = 12% p.a.

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$$\begin{aligned}\text{Time} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{1450 \times 100}{5000 \times 12} \\ &= \frac{29}{12} \text{ years} = 2 \frac{5}{12} \text{ years} \\ &= 2 \text{ years } 5 \text{ months}\end{aligned}$$

Find the rate when :

Question 9.

Solution:

Principal (P) = Rs. 8250

S.I. = Rs. 1100

Time (t) = 2 years

$$\begin{aligned}\text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{1100 \times 100}{8250 \times 2} \\ &= \frac{20}{3} \% = 6 \frac{2}{3} \% \text{ p.a.}\end{aligned}$$

Question 10.

Solution:

Principal (P) = Rs. 5200

S.I. = Rs. 975

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$$\text{Time } (t) = 2\frac{1}{2} = \frac{5}{2} \text{ years}$$

$$\begin{aligned}\therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{975 \times 100 \times 2}{5200 \times 5} \\ &= \frac{15}{2} \% \\ &= 7\frac{1}{2} \% \text{ p.a.}\end{aligned}$$

Question 11.

Solution:

Principal (P) = Rs. 3560

Amount (A) = Rs. 4521.20

S.I. = A – P = Rs. 4521.20 – 3560 = Rs. 961.20

Time (t) = 3 years

$$\begin{aligned}\therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{961.20 \times 100}{3560 \times 3} \\ &= \frac{96120 \times 100}{100 \times 3560 \times 3} \\ &= 9\% \text{ p.a.}\end{aligned}$$

Question 12.

Solution:

Principal (P) = Rs. 6000

Rate (r) = 12% p.a.

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$$\text{Time} = 3 \text{ years } 8 \text{ month} = 3 \frac{8}{12}$$

$$= 3 \frac{2}{3} \text{ years} = \frac{11}{3} \text{ years}$$

$$\therefore \text{S.I.} = \frac{P \times r \times t}{100} = \frac{6000 \times 12 \times 11}{100 \times 3}$$
$$= \text{Rs. } 2640$$

$$\therefore \text{Amount} = P + \text{S.I.}$$
$$= \text{Rs. } 6000 + \text{Rs. } 2640$$
$$= \text{Rs. } 8640$$

Question 13.

Solution:

Principal = Rs. 12600

Rate (A) = 15% p.a.

Time (t) = 3 years

$$\text{S.I.} = \frac{P \times r \times t}{100} = \frac{12600 \times 15 \times 3}{100}$$
$$= \text{Rs. } 5670$$

Amount = P + S.I. = Rs. 12600 + Rs. 5670 = Rs. 18270

Amount paid in cash = Rs. 7070

Balance = Rs. 18270 – 7070 = Rs. 11200

Price of goat = Rs. 11200

Question 14.

Solution:

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S.I. = Rs. 829.50

Rate (r) = 10% p.a.

Time (t) = 3 years

$$\begin{aligned}\therefore \text{Sum (P)} &= \frac{\text{S.I.} \times 100}{r \times t} = \frac{82950 \times 100}{100 \times 10 \times 3} \\ &= \text{Rs. 2765}\end{aligned}$$

Question 15.

Solution:

Amount (A) = Rs. 3920

$$\text{Rate } (r) = 7\frac{1}{2}\% = \frac{15}{2}\% \text{ p.a.}$$

Time (t) = 3 years

Let principal (P) = Rs. 100

$$\therefore \text{S.I.} = \frac{P \times r \times t}{100} = \frac{100 \times 15 \times 3}{100 \times 2} = \frac{45}{2}$$

$$\therefore A = P + \text{S.I.} = \text{Rs. } 100 + \text{Rs. } \frac{45}{2}$$

$$= \text{Rs. } \frac{245}{2}$$

If amount is Rs. $\frac{245}{2}$, then principal = Rs.

100

and if amount is Re 1, then principal

$$= \text{Rs. } \frac{100}{245}$$

if amount is Rs. 3920, then principal

$$= \frac{100 \times 3920 \times 2}{245}$$

$$= \text{Rs. } 3200$$

Question 16.

Solution:

Amount = Rs. 4491

Let principal (P) = Rs. 100

Rate (r) = 11% p.a.

Time (t) = 2 years 3 months = 27 = 94 years

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$$\begin{aligned}\therefore \text{S.I.} &= \frac{P \times r \times t}{100} = \frac{100 \times 11 \times 9}{100 \times 4} \\ &= \text{Rs. } \frac{99}{4}\end{aligned}$$

$$\therefore \text{Amount A} = P + \text{S.I.}$$

$$= \text{Rs. } 100 + \text{Rs. } \frac{99}{4} = \text{Rs. } \frac{499}{4}$$

If amount is Rs. $\frac{499}{4}$, then principal
 $= \text{Rs. } 100$

If amount is Re 1, then principal

$$= \text{Rs. } \frac{100 \times 4}{499}$$

and if amount is Rs. 4491, then principal

$$= \text{Rs. } \frac{100 \times 4 \times 4491}{499}$$

$$= \text{Rs. } 3600$$

Now, interest for 3 years at the rate of 11%

$$= \text{Rs. } \frac{3600 \times 11 \times 3}{100} = \text{Rs. } 1188$$

$$\therefore \text{Amount} = P + \text{S.I.}$$

$$= \text{Rs. } 3600 + \text{Rs. } 1188$$

$$= \text{Rs. } 4788$$

Question 17.

Solution:

Amount = Rs. 12122

Let principal (P) = Rs. 100

Rate (r) = 8% p.a.

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Time (t) = 2 years

$$\therefore \text{S.I.} = \frac{P \times r \times t}{100} = \frac{100 \times 8 \times 2}{100} = \text{Rs. } 16$$

$$\begin{aligned} \text{and amount} &= P \times \text{S.I.} = \text{Rs. } 100 + 16 \\ &= \text{Rs. } 116 \end{aligned}$$

If amount is Rs. 116, then principal

$$= \text{Rs. } 100$$

and if amount is Re. 1, then principal

$$= \text{Rs. } \frac{100}{116}$$

and if amount is Rs. 12122, then principal

$$= \text{Rs. } \frac{100 \times 12122}{116}$$

$$= \text{Rs. } 10450$$

Now rate (r) = 9%

and time (t) = 2 years, 8 months

$$= 2\frac{2}{3} \text{ years} = \frac{8}{3} \text{ years}$$

$$\therefore \text{S.I.} = \frac{Prt}{100} = \text{Rs. } \frac{10450 \times 9 \times 8}{100 \times 3}$$

$$= \text{Rs. } 2508$$

$$\begin{aligned} \therefore \text{Amount} &= P + \text{S.I.} \\ &= \text{Rs. } 10450 + 2508 \\ &= \text{Rs. } 12958 \end{aligned}$$

Question 18.

Solution:

Amount (A) = Rs. 4734

Principal (P) = Rs. 3600

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$$\text{S.I.} = A - P = \text{Rs. } 4734 - \text{Rs. } 3600 = \text{Rs. } 1134$$

$$\text{Time} = 3\frac{1}{2} = \frac{7}{2} \text{ years}$$

$$\begin{aligned}\therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{1134 \times 100 \times 2}{3600 \times 7} \\ &= 9\%\end{aligned}$$

Question 19.

Solution:

In first case,

$$\text{Amount (A)} = \text{Rs. } 768$$

$$\text{Principal (P)} = \text{Rs. } 640$$

$$\text{S.I.} = A - P = \text{Rs. } 768 - 640 = \text{Rs. } 128$$

$$\begin{aligned}\text{Time (t)} &= 2 \text{ years } 6 \text{ months} = 2\frac{1}{2} \\ &= \frac{5}{2} \text{ years}\end{aligned}$$

$$\begin{aligned}\therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{128 \times 100 \times 2}{640 \times 5} \\ &= 8\% \text{ p.a.}\end{aligned}$$

In second case,

$$\text{Principal (P)} = \text{Rs. } 850$$

$$\text{Rate (r)} = 8\% \text{ p.a.}$$

$$\text{Time (t)} = 3 \text{ years}$$

$$\therefore \text{S.I.} = \frac{P \times r \times t}{100} = \frac{850 \times 8 \times 3}{100} = \text{Rs. } 204$$

$$\begin{aligned}\text{Amount} &= P + \text{S.I.} = \text{Rs. } 850 + \text{Rs. } 204 \\ &= \text{Rs. } 1054\end{aligned}$$

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Question 20.**Solution:**

Principal (P) = Rs. 5600

Amount (A) = Rs. 6720

S.I. = A – P = Rs. 6720 – 5600 = Rs. 1120

Rate (r) = 8% p.a.

$$\begin{aligned}\therefore \text{Time} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{1120 \times 100}{5600 \times 8} \\ &= \frac{5}{2} = 2\frac{1}{2} \text{ years}\end{aligned}$$

Question 21.**Solution:**

Let principal (P) = Rs. 100

then amount (A) = Rs. 100 x 85 = Rs. 160

S.I. = A – P = Rs. 160 – 100 = Rs. 60

Time (t) = 5 years

$$\begin{aligned}\text{Rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{60 \times 100}{100 \times 5} \\ &= 12\% \text{ p.a.}\end{aligned}$$

Question 22.**Solution:**

Amount in 3 years = Rs. 837

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Amount in 2 years = Rs. 783

Difference = Rs. 837 – Rs. 783 = Rs. 54

Rs. 54 is interest for 1 year

Interest for 2 years = 2 x 54 = Rs. 108

Principal = Rs. 783 – 108 = Rs. 675

$$\begin{aligned}\text{Now rate} &= \frac{\text{S.I.} \times 100}{P \times r} = \frac{108 \times 100}{675 \times 2} \\ &= 8\% \text{ p.a.}\end{aligned}$$

Question 23.

Solution:

Amount in 5 years = Rs. 5475

Amount in 3 years = Rs. 4745

Interest for 2 years = Rs. 5475 – 4745 = Rs. 730

$$\text{and interest for 3 years} = \text{Rs. } \frac{730 \times 3}{2}$$

$$= \text{Rs. } 365 \times 3 = 1095$$

$$\therefore \text{Principal} = \text{Rs. } 4745 - 1095$$

$$= \text{Rs. } 3650$$

$$\text{and rate} = \frac{\text{S.I.} \times 100}{P \times t} = \frac{1095 \times 100}{3650 \times 3}$$

$$= 10\% \text{ p.a.}$$

Question 24.

Solution:

Total sum = Rs. 3000

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Let first part = Rs. x

Then second part = Rs. $(3000 - x)$

Now, interest on first part at the rate of

$$8\% \text{ for 4 years} = \frac{x \times 8 \times 4}{100} = \frac{32}{100} x$$

and interest on the second part for 2 years

$$\text{at } 9\% = \frac{(3000 - x) \times 9 \times 2}{100} = \frac{18(3000 - x)}{100}$$

But in both the case, interest is same.

$$\therefore \frac{32}{100} x = \frac{18(3000 - x)}{100}$$

$$\Rightarrow 32x = 18(3000 - x)$$

$$\Rightarrow 32x = 54000 - 18x$$

$$\Rightarrow 32x + 18x = 54000$$

$$\Rightarrow 50x = 54000$$

$$\Rightarrow x = \frac{54000}{50} = 1080$$

\therefore First part = Rs. 1080

and second part = Rs. $(3000 - 1080)$
= Rs. 1920

Question 25.

Solution:

Total sum = Rs. 3600

Let first part = Rs. x

Then second part = Rs. $(3600 - x)$

Interest on first part for 1 year at 9% p.a.

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$$= \frac{x \times 9 \times 1}{100} = \frac{9x}{100}$$

and interest on second part for 1 year at 10% p.a.

$$= \frac{(3600 - x) \times 10 \times 1}{100} = \frac{10(3600 - x)}{100}$$

But total interest = Rs. 333

$$\therefore \frac{9x}{100} + \frac{10(3600 - x)}{100} = 333$$

$$\Rightarrow 9x + 10(3600 - x) = 33300$$

$$\Rightarrow 9x + 36000 - 10x = 33300$$

$$\Rightarrow -x = 33300 - 36000$$

$$\Rightarrow -x = -2700$$

$$\Rightarrow x = 2700$$

First part = Rs. 2700

and second part = Rs. 3600 - 2700 = Rs. 900

Ex 12B

Question 1.

Solution:

Principal (P) = Rs. 6250

Rate of (R) = 4% p.a.

Period (T) = 6 months = 12 year

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$$\begin{aligned}\text{Simple interest} &= \frac{PRT}{100} \\ &= \text{Rs. } \frac{6250 \times 4 \times 1}{100 \times 2} = \text{Rs. } 125\end{aligned}$$

Question 2.

Solution:

Amount (A) = Rs. 3605

Rate (R) = 5% p.a.

$$\text{Period (T)} = 219 \text{ days} = \frac{219}{365}$$

$$= \frac{3}{5} \text{ years}$$

$$\therefore \text{Sum} = \frac{A \times 100}{100 + R \times T}$$

$$= \frac{3605 \times 100}{100 + 5 \times \frac{3}{5}}$$

$$= \text{Rs. } \frac{3605 \times 100}{100 + 3} = \frac{3605 \times 100}{103}$$

$$= \text{Rs. } 35 \times 100 = \text{Rs. } 3500 \quad (\text{b})$$

$$\text{Period (T)} = 219 \text{ days} = \frac{219}{365}$$

$$= \frac{3}{5} \text{ years}$$

$$\therefore \text{Sum} = \frac{A \times 100}{100 + R \times T}$$

Question 3.

Solution:

Let sum (P) = Rs. 100

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Then amount (A) = $\frac{6}{5}$ of sum

$$= \frac{6}{5} \times 100 = \text{Rs. } 120$$

$$\therefore \text{S.I.} = A - P = 120 - 100 = \text{Rs. } 20$$

$$\text{Period (T)} = 2\frac{1}{2} \text{ years} = \frac{5}{2} \text{ year}$$

$$\begin{aligned} \therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times T} \\ &= \frac{20 \times 100 \times 2}{100 \times 5} = 8\% \quad (\text{c}) \end{aligned}$$

Question 4.

Solution:

Principal (P) = Rs. 8000

Amount (A) – Rs. 8360

S.I. = A – P = Rs. 8360 – Rs. 8000 = Rs. 360

Rate (R) = 6% p.a.

$$\begin{aligned} \therefore \text{Period (T)} &= \frac{\text{S.I.} \times 100}{P \times R} \\ &= \frac{360 \times 100}{8000 \times 6} = \frac{3}{4} \text{ year} = 9 \text{ months (b)} \end{aligned}$$

Question 5.

Solution:

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Let sum (P) = Rs. 100

Then amount (A) = Rs. 100 x 2 = Rs. 200

S.I. = A – P = Rs. 200 – Rs. 100 = Rs. 100

Period (T) = 10 years

$$\begin{aligned}\therefore \text{Rate (R)} &= \frac{\text{S.I.} \times 100}{\text{P} \times \text{T}} \\ &= \frac{100 \times 100}{100 \times 10} = 10\% \quad \text{(b)}\end{aligned}$$

Question 6.

Solution:

S.I. = Rs. x

Rate (R) = x% p.a.

Time (T) = x year

$$\therefore \text{Principal} = \frac{\text{S.I.} \times 100}{\text{R} \times \text{T}} = \text{Rs.} \frac{x \times 100}{x \times x}$$

Rs. 100x (c)

Question 7.

Solution:

Let sum (P) = Rs. 100

$$\therefore \text{S.I.} = \frac{2}{5} \text{ of Rs. } 100 = \text{Rs. } 40$$

Period (T) = 5 years

$$\begin{aligned} \therefore \text{Rate} &= \frac{\text{S.I.} \times 100}{P \times T} \\ &= \frac{40 \times 100}{100 \times 5} = 8\% \end{aligned} \quad (\text{b})$$

Question 8.

Solution:

A's principal (P) = Rs. 8000

Rate (R) = 12% p.a.

B's principal = Rs. 9100

Rate = 10%

Let after x years, then amount will be equal

$$\begin{aligned} \therefore 8000 + \frac{8000 \times 12 \times x}{100} &= 9100 + \frac{9100 \times 10 \times x}{100} && \Rightarrow 50x = 1100 \\ \Rightarrow 960x + 8000 = 910x + 9100 &&& \Rightarrow x = \frac{1100}{50} = 22 \\ 960x - 910x = 9100 - 8000 &&& \therefore \text{Period} = 22 \text{ years} \end{aligned} \quad (\text{c})$$

Question 9.

Solution:

Amount (A) = Rs. 720

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Principal (P) = Rs. 600

S.I. = A – P = Rs. 720 – 600 = Rs. 120

Period (T) = 4 years

$$\therefore \text{Rate} = \frac{\text{S.I.} \times 100}{P \times T} = \frac{120 \times 100}{600 \times 4} = 5\%$$

In second case rate (R) = 5% + 2% = 7%

$$\therefore \text{S.I.} = \frac{PRT}{100} = \frac{600 \times 4 \times 7}{100} = 168$$

$$\begin{aligned} \text{Amount} &= P + \text{S.I.} = 600 + 168 \\ &= \text{Rs. } 768 \end{aligned} \quad (\text{c})$$

Question 10.

Solution:

$$y = \text{S.I. on } x = \frac{x \times RT}{100}$$

$$\text{and } z = \text{S.I. on } y = \frac{yRT}{100}$$

$$\therefore \frac{y}{z} = \frac{xRT}{100} \times \frac{100}{yRT} = \frac{x}{y}$$

$$\Rightarrow \frac{y}{z} = \frac{x}{y} \Rightarrow y^2 = zx \quad (\text{d})$$

Question 11.

Solution:

Let sum (P) = Rs. 100

Their S.I. = 0.125 of Rs. 100

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$$= \frac{125}{1000} \times 100 = \text{Rs. } 12.5$$

$$\text{Rate (R)} = 10\% \text{ p.a.}$$

$$\begin{aligned} \therefore \text{Period} &= \frac{\text{S.I.} \times 100}{\text{P} \times \text{R}} = \frac{12.5 \times 100}{100 \times 10} \\ &= \frac{12.5}{10} = 1.25 \text{ years} = 1 \frac{1}{4} \text{ years (a)} \end{aligned}$$

Question 12.

Solution:

$$\text{S.I.} = \text{Rs. } 210$$

$$\text{Rate (R)} = 3 \frac{3}{4} \% = \frac{15}{4} \% \text{ p.a.}$$

$$\text{Time (T)} = 2 \frac{1}{3} \text{ years} = \frac{7}{3} \text{ years}$$

$$\begin{aligned} \therefore \text{Principal} &= \frac{\text{S.I.} \times 100}{\text{R} \times \text{T}} \\ &= \frac{210 \times 100}{\frac{15}{4} \times \frac{7}{3}} = \text{Rs. } \frac{21000 \times 4 \times 3}{15 \times 7} \\ &= \text{Rs. } 2400 \end{aligned} \quad \text{(b)}$$



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- Chapter 15–Properties of Triangles
- Chapter 16–Congruence
- Chapter 17–Constructions
- Chapter 18–Reflection and Rotational Symmetry
- Chapter 19–Three-Dimensional Shapes
- Chapter 20–Mensuration
- Chapter 21–Collection and Organisation of Data (Mean, Median and Mode)
- Chapter 22–Bar Graphs
- Chapter 23–Probability

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