Simple Interest Ex 13.1 Q12

Answer :

Principal amount (P) = Rs 12500

Time period (T) = 3 years

Rate of interest (R) = 15% p.a.

Interest = $\frac{P \times R \times T}{100} = \frac{12500 \times 15 \times 3}{100}$ = Rs 5625

Rest of the amount lent = Rs 15000 − Rs 12500 = Rs 2500

Rate of interest = 18 % p.a.

Time period = 3 years

Interest = $\frac{P \times R \times T}{100} = \frac{2500 \times 18 \times 3}{100}$ = Rs 1350

Total interest earned = Rs 5625 + Rs 1350 = Rs 6975

Simple Interest Ex 13.1 Q13

Answer :

Principal amount deposited (P) = Rs 2000

Time period (T) = 1 year

Rate of interest (R) = 6% p.a.

Interest after 1 year = $\frac{P \times R \times T}{100} = \frac{2000 \times 6 \times 1}{100} = \mathbf{Rs\ 120}$

So amount after 1 year = Principal amount + Interest = 2000 + 120 = Rs 2120

After 1 year, amount withdrawn = Rs 700

Principal amount left (P_1) = Rs 2120 − Rs 700 = Rs 1420

Time period (T) = 2 years

Rate of interest (R) = 6% p.a.

Interest after 2 years = $\frac{P_1 \times R \times T}{100} = \frac{1420 \times 6 \times 2}{100} = \mathbf{Rs\ 170.40}$

Total amount after 3 years = Rs 1420 + Rs 170.40 = Rs 1590.40

********** END **********