

Simple Interest Ex 13.1 Q10

Answer:

Principal amount lent out by Rohit (P) = Rs. 60000

Time period (T) = 2 years

Rate of interest (R) = 10% p.a.

Interest =
$$\frac{P \times R \times T}{100} = \text{Rs.} \frac{60000 \times 10 \times 2}{100} = \text{Rs.} 12000$$

Principal amount borrowed by Rohit from the bank (P) = Rs. 60000

Time period (T)

Rate of interest (R) = 9% p.a. Interest = $\frac{P \times R \times T}{100}$ = Rs. $\frac{60000 \times 9 \times 2}{100}$ = Rs. 10800

Amount gained by Rohit = Rs. 12000 - 10800 = Rs. 1200

Simple Interest Ex 13.1 Q11

Answer:

Principal amount borrowed by Romesh (P) = Rs. 2000

Time period (T) = 2 years

Rate of interest (R) = 2% p.a.

Interest =
$$\frac{\mathbf{P} \times \mathbf{R} \times \mathbf{T}}{100} = \mathbf{Rs.} \frac{2000 \times 2 \times 2}{100} = \mathbf{Rs.} 80$$

Principal amount borrowed by Romesh (P) = Rs. 1000

Time period (T) = 2 years

Rate of interest (R) = 5% p.a.

$$\text{Interest = } \tfrac{P \times R \times T}{100} = Rs.\, \tfrac{1000 \times 5 \times 2}{100} = \ Rs.\, 100$$

Total amount that he will have to return = Rs. 2000 + 1000 + 80 + 100 = Rs. 3180

Amount repaid = Rs. 2800

Value of the watch = Rs. 3180 - 2800 = Rs. 380

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