



Compound Interest Ex 14.3 Q1

Answer :

Let the sum be Rs x.

We know that :

$$CI = A - P$$

$$= P \left(1 + \frac{R}{100} \right)^n - P$$

$$= P \left[\left(1 + \frac{R}{100} \right)^n - 1 \right]$$

$$164 = x \left[\left(1 + \frac{5}{100} \right)^2 - 1 \right]$$

$$164 = x \left[(1.05)^2 - 1 \right]$$

$$x = \frac{164}{0.1025}$$

$$= 1,600$$

Thus, the required sum is Rs 1,600.

Compound Interest Ex 14.3 Q2

Answer :

Let the sum be Rs x.

We know that :

$$CI = A - P$$

$$= P \left(1 + \frac{R}{100} \right)^n - P$$

$$= P \left[\left(1 + \frac{R}{100} \right)^n - 1 \right]$$

$$210 = x \left[\left(1 + \frac{10}{100} \right)^2 - 1 \right]$$

$$210 = x \left[(1.10)^2 - 1 \right]$$

$$x = \frac{210}{0.21}$$

$$= 1,000$$

Thus, the required sum is Rs 1,000.

Compound Interest Ex 14.3 Q3

Answer :

Let the sum be Rs x.

Then,

$$A = P \left(1 + \frac{R}{100} \right)^n$$

$$= P \left[\left(1 + \frac{R}{100} \right)^n \right]$$

$$756.25 = x \left[\left(1 + \frac{10}{100} \right)^2 \right]$$

$$756.25 = x \left[(1.10)^2 \right]$$

$$x = \frac{756.25}{1.21}$$

$$= 625$$

Thus, the required sum is Rs 625.

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