

Compound Interest Ex 14.1 Q4

Answer:

Given:

P = Rs 1,000

R = 8% p. a.

n = 1.5 years

We know that:

$$A = P \left(1 + \frac{R}{200}\right)^{2n}$$

$$=1,000\left(1+\frac{8}{200}\right)^3$$

$$=1,000(1.04)^3$$

$$= Rs 1, 124.86$$

Now,

$$CI = A - P$$

$$= Rs 1,124.86 - Rs 1,000$$

$$= Rs 124.86$$

Answer:

$$P = Rs 16,000$$

$$R = 20\% \text{ p. a.}$$

$$n = 1$$
 year

We know that:

$$A = P \left(1 + \frac{R}{400}\right)^{4n}$$

$$=16,000\left(1+\frac{20}{400}\right)^4$$

$$=16,000(1.05)^4$$

$$=$$
Rs 19,448.1

Now,

$$CI = A - P$$

$$=$$
Rs $19,448.1 -$ Rs $16,000$

$$= Rs 3,448.1$$

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