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Exercise 1A

Question 1:

The numbers of the form $\frac{p}{q}$ where p and q are integers and $q \neq 0$ are known as rational numbers.

Ten examples of rational numbers are:

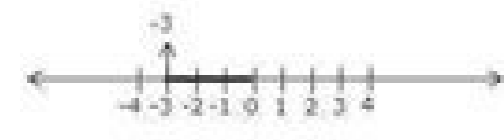
$1, \frac{1}{2}, \frac{3}{4}, \frac{5}{6}, \frac{7}{8}, \frac{9}{10}, 1, \frac{1}{2}$

Question 2:

(i) 5



(ii) -3



(iii) $\frac{1}{2}$



(iv) $-\frac{2}{3}$



(v) 1.3



$$\Rightarrow A = ₹ 35152$$

$$\begin{aligned} \therefore \text{Compound interest} &= A - P \\ &= 35452 - 31250 = ₹ 3902 \end{aligned}$$

3. Find the amount and the compound interest on ₹ 12800 for 1 year at 7 ½ % per annum, compounded half-yearly.

Solution:

Given:

Present value = ₹ 12800

Interest rate = 7 ½ % per annum

Time = 1 year and compounded half yearly

To find the amount we have the formula,

$$\text{Amount (A)} = P \left(1 + \frac{R}{100}\right)^{2n}$$

Where P is present value, r is rate of interest, n is time in years.

Now substituting the values in above formula we get,

$$\therefore A = 12800 \left(1 + \frac{15/4}{100}\right)^2$$

$$\Rightarrow A = 12800 \left(1 + \frac{3}{80}\right)^2$$

$$\Rightarrow A = 12800 \left(\frac{83}{80}\right)^2$$

$$\Rightarrow A = 128 \times \frac{6889}{64}$$

$$\Rightarrow A = ₹ 13778$$

$$\therefore \text{Compound interest} = A - P \\ = 13778 - 12800 = ₹ 978$$

4. Find the amount and the compound interest on ₹ 160000 for 2 years at 10 % per annum, compounded half-yearly.

Solution:

Given:

Present value = ₹ 160000

Interest rate = 10 % per annum

Time = 2 years and compounded half yearly

To find the amount we have the formula,

$$\text{Amount (A)} = P \left(1 + \frac{R}{100}\right)^{2n}$$

Where P is present value, r is rate of interest, n is time in years.

Now substituting the values in above formula we get,

$$\therefore A = 160000 \left(1 + \frac{10/2}{100}\right)^4$$

$$\Rightarrow A = 160000 \left(1 + \frac{5}{100}\right)^4$$

$$\Rightarrow A = 160000 \left(\frac{21}{20}\right)^4$$

$$\Rightarrow A = 160000 \times \frac{194481}{160000}$$

$$\Rightarrow A = ₹ 194481$$

$$\therefore \text{Compound interest} = A - P$$

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