

Mathematics

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(Chapter - 3) (Matrices)

(Class 12)

Question 10:

A manufacturer produces three products x, y, z which he sells in two markets. Annual sales are indicated below:

Market	Products		
	x	y	z
I	10,000	2,000	18,000
II	6,000	20,000	8,000

(a) If unit sale prices of x, y and z are ₹2.50, ₹1.50 and ₹1.00, respectively, find the total revenue in each market with the help of matrix algebra.

(b) If the unit costs of the above three commodities are ₹2.00, ₹1.00 and 50 paise respectively. Find the gross profit.

Answer 10:

(a) If unit sale prices of x, y and z are ₹2.50, ₹1.50 and ₹1.00, then

	Products			Selling Price
	x	y	z	
Market I	10000	2000	18000	₹2.50
Market II	6000	20000	8000	₹1.50
				₹1.00

Total revenue of each market

$$= \begin{bmatrix} 10000 & 2000 & 18000 \\ 6000 & 20000 & 8000 \end{bmatrix} \begin{bmatrix} ₹2.50 \\ ₹1.50 \\ ₹1.00 \end{bmatrix} = \begin{bmatrix} ₹25000 + ₹3000 + ₹18000 \\ ₹15000 + ₹30000 + ₹8000 \end{bmatrix} = \begin{bmatrix} ₹46000 \\ ₹53000 \end{bmatrix}$$

Hence the revenue of market I is ₹46000 and that of the market II is ₹53000.

(b) If the unit costs of the three commodities are ₹2.00, ₹1.00 and 50 paise, then

	Products			Costs
	x	y	z	
Market I	10000	2000	18000	₹2.00
Market II	6000	20000	8000	₹1.00
				₹0.50

Gross profit from each market

$$= \begin{bmatrix} 10000 & 2000 & 18000 \\ 6000 & 20000 & 8000 \end{bmatrix} \begin{bmatrix} ₹2.00 \\ ₹1.00 \\ ₹0.50 \end{bmatrix} = \begin{bmatrix} ₹20000 + ₹2000 + ₹9000 \\ ₹12000 + ₹20000 + ₹4000 \end{bmatrix} = \begin{bmatrix} ₹31000 \\ ₹36000 \end{bmatrix}$$

Total revenue from market I is ₹46000 and cost is ₹31000.

Therefore, the gross profit = Revenue - Cost = ₹46000 - ₹31000 = ₹15000

Total revenue from market II is ₹53000 and cost is ₹36000.

Therefore, the gross profit = ₹53000 - ₹36000 = ₹17000

Question 11:

Find the matrix X , so that $X \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} = \begin{bmatrix} -7 & -8 & -9 \\ 2 & 4 & 6 \end{bmatrix}$.

Answer 11:

$$\text{Let, } X = \begin{bmatrix} a & b \\ c & d \end{bmatrix}$$

$$\text{Therefore, } X \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} = \begin{bmatrix} -7 & -8 & -9 \\ 2 & 4 & 6 \end{bmatrix}$$

$$\Rightarrow \begin{bmatrix} a & b \\ c & d \end{bmatrix} \begin{bmatrix} 1 & 2 & 3 \\ 4 & 5 & 6 \end{bmatrix} = \begin{bmatrix} -7 & -8 & -9 \\ 2 & 4 & 6 \end{bmatrix}$$

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