Chapter Name

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July 31, 2023

10th Maths - Chapter 4

Solve the problems given in Example-1

1. John and Jivanti together have 45 marbles. Both of them lost 5 marbles each, and the product of the number of marbles they now have is 124. We would like to find out how many marbles they have to start with.
   Solution:
   Given Data:

   Let the number of marbles John had be x
   Then, the number of marbles Jivanti had=45-x
   The nuumber of marbles left with John, when he lost 5 marbles= x-5
   The number of marbles left with Jivanti, when she lost 5 marbles = 45-x-5= 40-x

$$\mathbf{AX} = \mathbf{B} \tag{1}$$

$$\frac{\begin{vmatrix} b & a2 \end{vmatrix}}{\begin{vmatrix} a1 & a2 \end{vmatrix}} = \frac{\begin{vmatrix} 4 & -1 \\ 10 & 1 \end{vmatrix}}{\begin{vmatrix} 1 & -1 \\ 1 & 1 \end{vmatrix}} \tag{2}$$

Ex of creating a matrix - $\begin{pmatrix} 1 & 2 \\ 3 & 4 \end{pmatrix}$

Ex of using fraction and brak - $\frac{(\mathbf{B}-\mathbf{A})(\mathbf{C}-\mathbf{B})^{\top}}{\|\mathbf{C}-\mathbf{B}\|^2}$

type your solutions using these commands