

④ let no. of rows = x
 let of students
 in a row = y

\therefore total students = xy

acc. to condition I

no. of rows = $x-1$

no. of st. in a row = $y+3$

total students = $(x-1)(y+3)$

acc. to cII

no. of rows = $x+2$

no. of st. in a row = $y-3$

total students = $(x+2)(y-3)$

$$xy = (x-1)(y+3) = (x+2)(y-3)$$

$$xy = (x-1)(y+3)$$

$$\Rightarrow xy = xy + 3x - y - 3$$

$$\Rightarrow 3x - y = 3 \dots \textcircled{I}$$

$$\textcircled{I} - \textcircled{II}$$

$$\begin{array}{r} 3x - y = 3 \\ 3x - 2y = -6 \\ \hline + y = 9 \end{array}$$

Sub \textcircled{I}

$$3x - 9 = 3$$

$$x = \frac{12}{3}$$

$$= x = 4$$

$$xy = (x+2)(y-3)$$

$$\Rightarrow xy = xy - 3x + 2y - 6$$

$$\Rightarrow 3x - 2y = -6 \dots \textcircled{II}$$

$$\therefore \text{no. of rows} = x = 4$$

$$\text{no. of students in a row} = y = 9$$

$$\therefore \text{total} = xy = 4 \times 9 = 36$$