

⑧ let no. of rows = no. of plants in a row = x
according to condition

$$\begin{aligned} x \times x &= 2025 \\ \Rightarrow x^2 &= 2025 \\ \Rightarrow x &= \sqrt{2025} \\ &= \sqrt{3^2 \times 3^2 \times 5^2} \\ &= 3 \times 3 \times 5 \\ &= 45 \end{aligned}$$

\therefore no. of rows = 45

no. of plants in a row = 45

⑨ Smallest no. divisible by 4, 9, 10
= LCM of 4, 9, 10

$$= 180$$

$$180 = 2^2 \times 3^2 \times 5$$

required perfect square

$$= 180 \times 5 \quad [\text{to complete a pair of } 5]$$

$$= 900$$