

I. Answer the following questions:

1. a) Square root b) 7 c) 2
2. a)

$$\begin{array}{r} 66 \\ 6 \overline{)4356} \\ \underline{36} \\ 756 \\ \underline{756} \\ 0 \end{array}$$

$\therefore \sqrt{4356} = 66$

- b) $\sqrt{12.25}$

$$\begin{array}{r} 3.5 \\ 3 \overline{)12.25} \\ \underline{9} \\ 325 \\ \underline{325} \\ 0 \end{array}$$

$\therefore \sqrt{12.25} = 3.5$

3. Area of square = $s \times s$ sq. units

= s^2

Given: Area of the square = 576cm^2

To find:

Length of the side

$s^2 = 576$

$s = \sqrt{576}$

$$\begin{array}{r} 24 \\ 2 \overline{)576} \\ \underline{4} \\ 176 \\ \underline{176} \\ 0 \end{array}$$

$\therefore \sqrt{576} = 24$

$\therefore s = 24\text{cm}$

4. To find: The square of 7250.

$$\begin{array}{r} 85 \\ 8 \overline{)7250} \\ \underline{64} \\ 850 \\ \underline{825} \\ 25 \end{array}$$

Remainder = 25

This shows that $(85)^2$ is less than 7250 by 25.

So, the least number to be subtracted from 7250 is 25.

\therefore The required perfect square is $7250 - 25 = 7225$.

$\therefore \sqrt{7225} = 85$