

8/10/2020
THURSDAY

MATHEMATICS

STD - \bar{x}
class - 41

Assignment

1) When each side of a square was reduced by 2 metres, the area becomes 49 square metres. What was the length of a side of the original square?

Ans) Let the length of a side of the original square = x m

\therefore side of the square when reduced by 2 = $(x-2)$ m

$$\text{Its area} = (x-2)^2$$

$$\text{Area of the square PQRS} = 49 \text{ m}^2 \text{ (given)}$$

$$\therefore (x-2)^2 = 49$$

$$= x-2 = \sqrt{49} = 7$$

$$x-2 = 7$$

$$\therefore x = 7 + 2 = \underline{\underline{9}}$$

\therefore Length of a side of the original square = 9 m

