## Ncert Solutions Class 10 Quadratic Equations

## Exercise 4.3

3. Is it possible to design a rectangular mango grove whose length is twice its breadth, and the area is $800 \mathrm{~m}^{2}$ ? If so, find its length and breadth.

## Solution:

Let breadth of rectangular grove $=x \mathrm{~m}$ and length of rectangular grove $=2 \times \mathrm{m}$
ATQ :-
$x(2 x)=800$
$\Rightarrow$
$2 x^{2}=800$
$\Rightarrow$
$x^{2}=400$
$\Rightarrow \quad x= \pm 20$
$\therefore \quad$ breadth of rectangular grove $=20 \mathrm{~m} \quad[\because$ breadth can never be - ve]
\& length of rectangular grove $=2 x=40 \mathrm{~m}$.
$\therefore \quad$ it is possible to design rectangular mango grove.

