

# MATHEMATICS

STD - 8  
class - 45

16/10/2020  
FRIDAY

## Assignment

1) Product of a number and two more than that number gives 168. Find the Numbers ?

Ans) Let the number =  $x$

2 more than the number =  $x+2$

$$\therefore x(x+2) = 168$$

$$x^2 + 2x = 168$$

To complete the square, add 1 to both sides

$$\therefore x^2 + 2x + 1 = 168 + 1$$

$$(x+1)^2 = 169$$

$$\therefore x+1 = \sqrt{169} = 13$$

$$x+1 = 13$$

$$\therefore x = 13 - 1 = \underline{\underline{12}}$$

$\therefore$  Numbers are  $x, x+2$

$$= \underline{\underline{12, 14}}$$