

12/10/2020
MONDAY

MATHEMATICS

STD-8
class-43

Assignment

1) The difference of two positive numbers is 6.
Their product is 216. Find the numbers.

Ans) Let the numbers be, $x, x+6$

$$\text{Product} = x \times (x+6) = 216$$

$$x^2 + 6x = 216$$

9 add to both sides

$$\therefore x^2 + 6x + 9 = 216 + 9$$

$$(x+3)^2 = 225$$

$$x+3 = \sqrt{225}$$

$$x+3 = \underline{\underline{15}}$$

$$\therefore x = 15 - 3 = \underline{\underline{12}}$$

\therefore Numbers are = $x, x+6$

$$= 12, 12+6$$

$$= \underline{\underline{12, 18}}$$