

Worksheet -6

Subject: - Mathematics

Class: - VIII

Teacher: - Ms. Neeru

Name: _____ Class & Sec: _____ Roll No. _____ Date: 13.08.2020

Question 2:**Ex 6.4**

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Find the number of digits in the square root of each of the following numbers (without any calculation):

- | | |
|------------|------------|
| (i) 64 | (ii) 144 |
| (iii) 4489 | (iv) 27225 |
| (v) 390625 | |

Answer 2:

- (i) Here, 64 contains two digits which is even.

$$\text{Therefore, number of digits in square root} = \frac{n}{2} = \frac{2}{2} = 1$$

- (ii) Here, 144 contains three digits which is odd.

$$\text{Therefore, number of digits in square root} = \frac{n+1}{2} = \frac{3+1}{2} = \frac{4}{2} = 2$$

- (iv) Here, 4489 contains four digits which is even.

$$\text{Therefore, number of digits in square root} = \frac{n}{2} = \frac{4}{2} = 2$$

- (v) Here, 390625 contains six digits which is even.

$$\text{Therefore, number of digits in square root} = \frac{n}{2} = \frac{6}{2} = 3$$