divisor × divisor ≤ num

$6^2 = 36$ $\sqrt{36} = 6$

$\sqrt{36} = 6$ sq. both side

$36 = 6^2$

int z = 36

int y = Math.sqrt(z);

Sqrt(y);   //6

24

1 × 24	24 × 1
2 × 12	12 × 2
3 × 8	8 × 3
4 × 6	6 × 4

$\sqrt{24}$

36

1 × 36	36 × 1
2 × 18	18 × 2
3 × 12	12 × 3
4 × 9	9 × 4
6 × 6	

$\sqrt{36}$

40

1 × 40	40 × 1
2 × 20	20 × 1
4 × 10	10 × 4
5 × 8	8 × 5

$\sqrt{40}$

0 Prime → only 2 factors.

num = 10   num = 17   num = 3, 11, 19, 23, 5, 7, 2

1   1
2   17
5
10

Q. num = 5   num = 3

4 → Not a prime   5
6 → Not a prime   Prime
7 → Prime   9
13 → Prime   not a prime
20 → Not   11
                         Prime