

SQUARE ROOT OF SMALL NUMBERS

For the class- 6th to 10th

► Find out the square root of small numbers

36, 81, 625, 144, 1024, 2500 etc.

Solve-

2	36
2	18
3	9
3	3
	1

3	81
3	27
3	9
3	3
	1

5	625
5	125
5	25
5	5
	1

2	144
2	72
2	36
2	18
3	9
3	3
	1

2	1024
2	512
2	256
2	128
2	64
2	32
2	16
2	8
2	4
2	2
	1

2	2500
2	1250
5	625
5	125
5	25
5	5
	1

You are looking in these tables the factors of numbers. Or factors of numbers are

$$36 = 2 \times 2 \times 3 \times 3 = 2^2 \times 3^2 = (2 \times 3)^2$$

$$81 = 3 \times 3 \times 3 \times 3 = (3 \times 3)^2$$

$$\text{now square root of } 36 = \sqrt{36} = \sqrt{(2 \times 3)^2} = 2 \times 3 = 6$$

$$\text{and square root of } 81 = \sqrt{81} = \sqrt{(3 \times 3)^2} = 3 \times 3 = 9$$

Now solve the square root of 625, 144, 1024 and 2500 self according above calculation.

Now we shall tell you solve the square root of large numbers e.g. 9556636893 in next note.