SQUARE ROOTO OF LARGE NUMBERS

For the class- 6<sup>th</sup> to 10<sup>th</sup>

► Find out square root of a large number

<sup>e.g.</sup> 319225,	1216609
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Solve- $\sqrt{319225} = \sqrt{319225} = 0.0000000000000000000000000000000000$			
ion from 1 of 2			
	DFONICI	page .	
5	31 92 25		
	-25		
106	692		
<b>×</b> 6	-636		
1125	5625		
<b>×</b> 5	-5625		
	0000		

Now understand it step by step

Step-1 First we write digits of number in pair from right to left or from digit one. Step-2 We shall divide first pair (31) by same times same number e.g.  $5\times5$ . Here  $6\times6$  will be more than 31 and  $4\times4$  will be more less than 31 so the proper number will be 5.

Step-3 Pay attention on second raw. In this raw in 106, 10 is two times of 5 and 6 is maximum quotient number of  $\frac{69}{5}$ . Thus 106 will be divisor of 692. 6 is remains number and 92 is next pair. Same processor is repeating in third raw. 112 is two times of 56 and 5 is maximum quotient number of  $\frac{562}{112}$ .

► 1216609 have odd count of digits so 1 will be single and write as following-

## <u>1 21 66 09</u>

Divisor of 1 will be 1. Now next do self according first example.