

22/9/21

Wednesday

Maths Square and Square roots.

1) The unit digit in the square of 145, 2459 and 56986 are respectively.

145 - Unit digit = 5

2459 - Unit digit = 1

56986 - Unit digit = 6

→ Respectively - 12

2) Unit digit.

1) 145 - 5 unit digit in the square

2) 2459 - 1 unit digit in the square

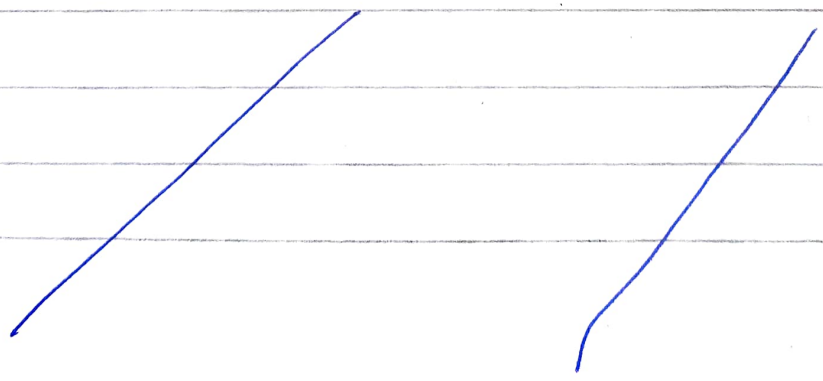
3) 56986 - 6 - unit in square

3) Check.

1) ~~1000~~ (161)² ends with digit 1

4) Find the square root?

$$\begin{array}{r} \sqrt{144} = \\ 12 \end{array}$$



5) Find ----- obtained?

* 252 must be multiplied by 7

$$= 252 \times 7$$

$$= 1764$$

Square root of 1764 = 3,528

6 Find the difference ----- ?

(i) We know $a^2 - b^2 = (a+b)(a-b)$

$$\text{So, } (52)^2 - (51)^2 = (52+51)(52-51)$$

$$= 103 \times 1$$

$$= (103)^2$$

(ii) We know $a^2 - b^2 = (a+b)(a-b)$

$$\text{So, } (71)^2 - (72)^2 = (71+72)(71-72)$$

$$= 143 \times -1$$

$$= (-143)^2$$

(iii) We know $a^2 - b^2 = (a+b)(a-b)$

$$\text{So, } (101)^2 - (100)^2 = (101+100)(101-100)$$

$$= 201 \times 1$$

$$= (201)^2$$

7 Let number of Natural number square of 15, 16
 obt _____ of 27, 28

$P = 30$

$q = \underline{\underline{54}}$

8 Find square root

a)

$$\begin{array}{r}
 \overline{224} \\
 2 \overline{) 50176} \\
 \underline{4} \\
 42 \\
 \underline{ 84} \\
 1776 \\
 444 \overline{) 1776} \\
 \underline{ 0} \\
 0
 \end{array}$$

$$\begin{array}{r}
 \overline{145} \\
 2 \overline{) 21025} \\
 \underline{4} \\
 24 \\
 \underline{ 96} \\
 1425 \\
 285 \overline{) 1425} \\
 \underline{ 0} \\
 0
 \end{array}$$

9 A Class _____ in the School

A Class Collected 6890625

10 Total number of plants gardeners have = 1000

1000 is not a perfect square
 We know 1000 lies between $31^2 < 1000 < 32^2$

Perfect square just after 1000 = 32^2
 = 1024

No of plants required = $1024 - 1000$
 = 24 plants.