Squares and Square Roots Ex 3.3 Q3

Answer :

We will use visual method as it is the most efficient method to solve this problem.

(i) We have:

127 = 120 + 7

Hence, let us draw a square having side 127 units. Let us split it into 120 units and 7 units.

	120	7
120	120x120 =14400	120x7 =840
7	7x120 =840	7x7 =49

14400+840+840+49
=16129

Hence, the square of 127 is 16129.

(ii) We have:

503 = 500 + 3

Hence, let us draw a square having side 503 units. Let us split it into 500 units and 3 units.

	500	3
500	500 x 500 =250000	500x3 =1500
3	3x500 =1500	3x3 =9

250000+1500+1500+9
=253009

Hence, the square of 503 is 253009.

(iii) We have:

451 = 450 + 1

Hence, let us draw a square having side 451 units. Let us split it into 450 units and 1 units.

	450	1
450	202500	450
1	450	1

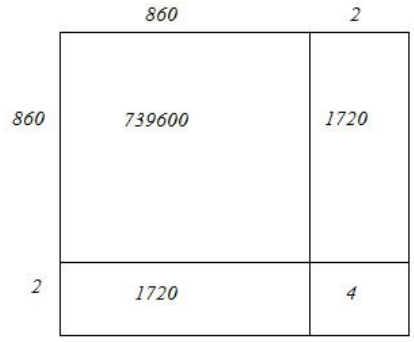
202500+450+450+1
=203401

Hence, the square of 451 is 203401.

(iv) We have:

862 = 860 + 2

Hence, let us draw a square having side 862 units. Let us split it into 860 units and 2 units.



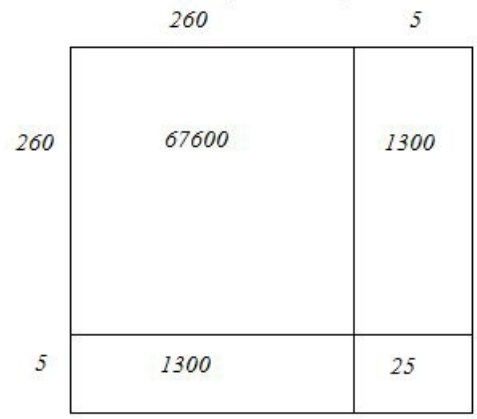
739600+1720+1720+4
=743044

Hence, the square of 862 is 743044.

(v) We have:

265 = 260 + 5

Hence, let us draw a square having side 265 units. Let us split it into 260 units and 5 units.



67600+1300+1300+25
=70225

Hence, the square of 265 is 70225.

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