

SQUARES AND SQUARE ROOTS PERIOD 2

SUBJECT : MATHEMATICS CHAPTER NUMBER: 3 CHAPTER NAME : SQUARES AND SQUARE ROOTS

CHANGING YOUR TOMORROW

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Learning outcome

Students will be able to understand the properties of square number.



Properties of square numbers

https://www.youtube.com/watch?v=yMrXa_0TcDs (3:32)

Evaluation Questions

Ex 3C

1 .(v) Seeing the value of the digit at unit's place, state which of the following can be square of a number 50699

Sol: We know that a Square number can only end with digits 0, 1, 4, 5, 6, 9.

So, 50699 can be square of a number.

Question 7.

If the square of a number ends with 10 zeroes, how many zeroes will the number have?

Sol: The **number of zeros at the end** of a perfect **square** is always even.



2.(ii)



Required square root =23.06





Exercise-3(B)



1	0.152
0.1	0.023104
	0.01
.25	131
	125
.302	604
	604
	×







Square root of decimal

https://www.youtube.com/watch?v=tRHLEWSUjrQ (3:03)



Exercise-3(B)

10)

√7.832 = 2.80 upto two decimal places

= 2.8 upto two significant places



11) Find the least number which must be subtracted from 1205 so that the resulting number is a perfect square.

Sol:

Clearly, if 49 is subtracted from 1205, the number will be a perfect square.

 \therefore 1205 - 49 = 1156 and $\sqrt{1156}$ = 34



12)Find the least number which must be added to 1205 so that the resulting number is a perfect square.

Sol: Clearly, 1205 is greater than 34²

- On adding the required number to 1205, we shall be getting 35² i.e., 1225
- \therefore The required number = 1225 1205 = 20



Home assignment

Exercise 3(B) -1 to 6

- Find the side of a square, whose area is equal to the area of a rectangle with sides
 6.4m and 2.5m.
- 2. Find the number of plants in each row, if 1024 plants are arranged, so that number of plants in a row is the same as the number of rows.
- 3. A hall has a capacity of 2704 seats. If the number of rows is equal to the number of seats in each row, then find the number of seats in each row.



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