ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VIII	**Subject**	Mathematics	**Plan**	

Period	1	**Chapter:3**	Squares and Square-roots

Sub-Concept	Perfect square, Find the square root using prime factor method
Teaching Aids to be used	Audio-Visual Aids with **CCRE**

Learning outcomes	➢ Students will be able to find the perfect square ➢ Students will be able to find the square root of a perfect square number using prime factor method.

SLNO	**Step Wise (What to be done)**
1. Introduction	Brief introduction about perfect square, find the square root of a perfect square number using prime factor method.
2.Pre	Introduction to Square roots
	https://www.youtube.com/watch?v=mbc3_e5lWw0 (5:23)
3.Evl	**Evaluation Questions** Ex 3A –1 (ii),2(iii)
4.HW	Exercise 3(A) -1 to 5 and AHA as follows
5.AQ	**1. Is 176 a perfect square? If not, find the smallest number by which it should be multiplied to get a perfect square.**
	2. Find the length of the side of a square, if the length of its diagonal is 10 cm.
	3. **Find the least square, number, which is exactly divisible by 3, 4, 5, 6 and 8.**

**CCRE- common class room equipment

**AHA- Additional Home Assignments (to be given to toppers)

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Class	VIII	**Subject**	Mathematics	**Plan**	
Period	2	**Chapter:3**	Squares and Square-roots		
Sub-Concept			To find the square root using division method		
Teaching Aids to be used			Audio-Visual Aids with **CCRE**		
Learning outcomes			➢ Students will be able to find the square root of a perfect square using division method. ➢ Students will be able to find the square root of a number which is not a perfect square using division method		

SLNO	**Step Wise (What to be done)**
1.Int	To find the square root using division method
2.Pre	**A decimal number is multiplied by itself. If the product is 51.84, then find the number.**
	Find the least number of four digits that is a perfect square.
	By what smallest number should 216 be divided, so that the quotient is a perfect square? Also, find the square root of the quotient.
	Find the square root of 2 and 3 correct to 2 decimal places.
	What is the least number that should be added to 6200 to make it a perfect square?
	https://www.youtube.com/watch?v=tRHLEWSUjrQ (3:03)
3.Evl	**Evaluation Question:** Ex. 3(B) Q. No. 1 bit (v), 2 bit(ii)
4.HW	Exercise 3(B) -1 to 6 and AHA as follows
5.AQ	1. **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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Class	VIII	**Subject**	Mathematics	**Plan**	

Period	3	**Chapter:3**	Squares and Square-roots

Sub-Concept	Problem solving on the above concept
Teaching Aids to be used	Audio-Visual Aids with **CCRE**

Learning outcomes	➢ Students will be able to **know and write** the solutions and way of presenting the additional questions given to solve.

SLNO	**Step Wise (What to be done)**
1.Int	Find the square root of 0.2916
2.Pre	Find the least number which must be added to 5483 so that the resulting number is a perfect square.
	Students may be asked to explain the answers and to write on board.
	For slow learners all the answers to be written on the black board.
3.HW	Exercise 3(B) -9 to 14

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Class	VIII	**Subject**	Mathematics	**Plan for**	
Period	4	**Chapter:3**	Squares and Square-roots		
Sub-Concept			Properties of square numbers		
Teaching Aids to be used			Audio-Visual Aids with **CCRE**		
Learning outcomes			➢ Students will be able to understand the properties of square number.		

SLNO	**Step Wise (What to be done)**
1.int	Properties of square numbers https://www.youtube.com/watch?v=yMrXa_0TcDs (3:32)
2.Pre	Discuss Exercise 1(B) Q. No. 1 bit (v) and (vi) , Q No. 2 bit (v)
	If the square of a number ends with 10 zeroes, how many zeroes will the number have?
	Give reason to show that none of the numbers 640, 81000 and 3600000 is a perfect square.
3.Evl	Evaluation Question Ex. 3(C) Q. No. 14
4.HW	Exercise 3(C) - 1 to 6
5.AQ	1. **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.**
	2. Find the side of a square, whose area is equal to the area of a rectangle with sides 6.4m and 2.5m .

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Class	VIII	**Subject**	Mathematics	**Plan for**	
Period	5	**Chapter:3**	Squares and Square-roots		

Sub-Concept	Recapitulation of the Chapter
Teaching Aids to be used	Audio-Visual Aids with **CCRE**

Learning outcomes	➢ Students will be able to find the perfect square ➢ Students will be able to find the square root of a perfect square number using prime factor method. ➢ Students will be able to find the square root of a perfect square using division method. ➢ Students will be able to find the square root of a number which is not a perfect square using division method

SLNO	**Step Wise (What to be done)**
Simultaneous interaction and presentation in one go	They will be asked to solve problems based on Squares and Square-roots. They will be asked to find the square root of a perfect square using division method. They will be asked to find the square root of a number which is not a perfect square using division method. Necessary feedback is to be given at the end with presentatation skill. Study note may be presented at the end with collection of HW. • **What is the least number that should be added to 6200 to make it a perfect square?** • **Find the least number of four digits that is a perfect square.**