INDIAN SCHOOL DARSAIT
DEPARTMENT OF MATHEMATICS

Subject : Mathematics	Topic:Squares and square roots	Date of Worksheet
Resource Person: Mrs PriyaBijukumar		Date : _____

Name of the Student :_____   Class & Division : VIII   Roll Number : __

S.No.	SECTION-A	Marks
1	Find the common factors of (a) 54 and 12 (b) 36,45	
2	Find the HCF of (a) 45 ,81 (b) 52, 78,36	
3	Find the pair of numbers which are co-prime: (a) 11, 19 (b)63,36 (c)93,30	
4	Find LCM of (a) 8,12 (b) 9,15 (c) 75,150,200	
	SECTION-B	
1	Write a Pythagorean triplet whose smallest member is6.	2
2	Find the square root of the following numbers : (i) 5929(prime facorisation) (ii) 4096 (prime facorisation) (iii) 1764(prime facorisation) (iv) 6084) (long division) (v) 15625(long division) (vi) 51.84(long division) (vii) 24.01(long division)	3
3	Find the smallest number by which 1008 to be multiplied so as to get a perfect square.	3
4	Find the smallest number by which 2100 to be divided so as to get a perfect square. Find this perfect square and its square root	3
5	Find the smallest number to be added to 4015 so as to get a perfect square. Find this perfect square and its square root	3
6	Find the smallest number to be subtracted from 48 so as to get a perfect square Find this perfect square and its square root	3
7	Find the greatest number of four digits which is a perfect square.	3
8	59536 pants are to be arranged in such a way that the number of plants in each row is equal to the number of plants in each column.Find the number of trees in each row.	3
9	Find the smallest square number which is exactly divisible by 4,6,8 and 12.	3
10	Is 3528 is a perfect square ?	3
1	Find the square root of 2 up to three decimal places.	

2	A society collected Rs. 8836, each member contributing as many rupees as there were members. (i) Find the number of members of the society. (ii) Society decided to contribute half of the amount they collected to an old age home to help the poor. Find the amount. (iii) What value is depicted in this action?	
	Chapter 7 - Cubes and Cube roots	
S.No.	**SECTION-A**	**Marks**
1	Arrange the following numbers in ascending order : a) 20, -20, -10 , 10, 1, -1, -13 -21, 6, -7, 2, 0, -1, -12	

2	Circle the greatest number in each pair
	   a) -67, -68
	    b)-371, -432	

3	Find
	   a) (+3) +(+35)
	   b) (+8) –(+3)
	   c) (-20)+ (-30)
	   d) 12 +(-5)-4	

	SECTION-B	
1	Is 632 a perfect cube?	1
2	Evaluate: $(2.2)^3$ (ii) $(1.1)^3$ (iii) $(0.4)^3$ (iv)$(0.03)^3$	1
3	Find the smallest number by which 1323 must be divided to get a perfect cube.	3
4	Find the smallest number by which 6912 must be multiplied so that the product is a perfect cube.	3
6	Find the cube root of the following: (i2197 (ii) 343 (iii) 2197 (iv) 3375	3
7	Find the volume of a cube, each of whose edge measure 3.5 cm	2

8	Classify the following as True or false ;
	   a) Cube of any odd number is odd.
	   b) Cube of an even number is odd.
	   c) A perfect cube can not end with two zeros.
		3

	SECTION –C	
1	The volume of a cube is 117649cm^3.Find the length of its edge .	
2	The sum of the cubes of three numbers which are in the ratio 1:2:3 is 7776.Find the numbers .	