Department of Mathematics	**INDIAN SCHOOL AL WADI AL KABIR** **Class VIII**, Mathematics **WORKSHEET (2026-27)** **SQUARE AND SQUARE ROOT**

DESCRIPTIVE TYPE QUESTIONS	
Q.1	How many non-square numbers lie between 127^2 and 128^2
Q.2	The area of the square is 1024 m^2. Find the length of one side of the square.
Q.3	Without adding, find the sum of 1 + 3 + 5 + 7 + 9 + 11 + 13 + 15 + 17 + 19 + 21 + 23.
Q.4	Find the square root of 15876 by the method of prime factorisation.
Q.5	Find the smallest number by which 4851 must be multiplied so that the product becomes a perfect square. Also find the square root of the perfect square so obtained.
Q.6	Find the smallest square number divisible by each one of the numbers 8, 12, 15 and 20.
Q.7	Find the square root of 169 by the method of repeated subtraction.
Q.8	Given $135^2 = 18225$, what is the value of 136^2
Q.9	Estimate the square root of 435.
Q.10	**Case Study: The School Garden Project** The Class 8 students of a school want to design a square-shaped herbal garden in a field. They have a total of 2025 flower plants available. The school wants to arrange the plants in a way that the number of rows equals the number of columns. Based on the data answer the following questions: (a) Check whether 2025 is a perfect square. (b) What is the maximum number of plants planted in a row. (c) If the side of the garden is $\frac{4}{7}m$, find the area of the garden. (d) Simplify: $\frac{\sqrt{49}+\sqrt{225}}{\sqrt{64}+\sqrt{289}}$

ANSWER KEY							
1	254	2	32m	3	144	4	126
5	11, 231	6	3600	7	13	8	18496
9	21	10	a) yes	10	b)45 c)16/49	10	d) 22/25