



Indian School Al Wadi Al Kabir
Pre-Mid Term Examination (2026 -27)

Class: VIII

MATHEMATICS (Set 1)

Max. Marks: 30

Date: 17-05-2026

Time: 1 Hour

General Instructions:

Section A: Multiple Choice Questions (Q.1 to Q.8)

Section B: Source based questions (Q.9 to Q.12)

Section C: Long Answer Questions (Q.13 to Q.18)

Section D: 4 Marks Case study Question (Q.19).

Note: This question paper consists of 2 printed pages.

Section A: Multiple choice questions (Q.1 to Q.8)

1. The number of non-square numbers in between 41^2 and 42^2 is :
A. 84 B. 82 C. 83 D. 162 1M
2. The cube root of 0.008 is:
A. 0.4 B. 0.2 C. 0.64 D. 0.02 1M
3. The number of digits in the square root of 15,876 is:
A. 3 B. 4 C. 5 D. 2 1M
4. Choose a number which is not a perfect square.
A. 2401 B. 4225 C. 1764 D. 1848 1M
5. The value of $\sqrt[3]{\frac{343}{512}}$ is:
A. $\frac{4}{9}$ B. $\frac{7}{9}$ C. $\frac{7}{8}$ D. $\frac{3}{8}$ 1M
6. If the square root of a number is 0.7, what is the number?
A. 1.4 B. 0.14 C. 0.49 D. 0.049 1M
7. The unit place digit in the cube of 9547 is:
A. 7 B. 3 C. 9 D. 4 1M
8. Which of the following is equal to its own cube?
A. -1 B. -2 C. -3 D. -4 1M

Section B: Source based questions (Q.9 to Q.12)

The Mathematics Club of ISWK School organized a 'Number Challenge Booth' during the annual fair. They placed 20 strips of paper in a box, each labelled with a number from 1 to 20 on one side and its cube on the other side respectively. Participants were invited to pick one strip at random. Based on the number chosen, they had to answer a question prepared by the Math Club team. Few of the questions given below.

9. A student chooses a strip with one side it is 11, the number on the other side is:
A. 101 B. 1331 C. 961 D. 121 1M
10. What is the least number that must be added to 725 to make it a perfect cube?
A. 4 B. 3 C. 5 D. 2 1M
11. Find the number of zeros in the cube of 20 is:
A. 1 B. 2 C. 4 D. 3 1M
12. The value of $\sqrt[3]{5 \times 5 \times 13 \times 13 \times 13 \times 5}$ is:
A. 15 B. 75 C. 65 D. 85 1M

Section C: Long Answer Questions (Q13 to Q.18)

13. Find the least number to be multiplied with $3 \times 3 \times 5 \times 2$ to make it as a perfect square, also find the square root of the number obtained. 2M
14. Express the number 8^3 as the sum of consecutive odd numbers. 2M
15. A square-shaped floor of a party hall has an area of $1,296m^2$. Find the length of one side of the floor. 2M
16. Check whether 86 is a perfect square using the repeated subtraction method. 2M
17. Determine the smallest whole number by which 3528 must be multiplied so that the resulting product is a perfect cube. Also find the cube root of the number so obtained. 3M
18. Find the smallest square number which is divisible by each of the numbers 8, 10 and 16 3M

Section D: (Case Study)

19. The "Greenwood Residency" society plans to pave a square-shaped courtyard within their complex. To achieve an elegant finish, they have chosen square granite slabs. They have purchased exactly 625 slabs and intend to use all of them to form a seamless, perfect square floor without any gaps. Adjacent to this main courtyard, the residents have also designed a smaller square decorative patch with a side length of 11 m. Based on the above case, answer the following questions.



4M

- i) What will be the length of each side of the courtyard once all 625 slabs are laid? (1m)
- ii) Find the value of $57^2 - 56^2$. (1m)
- iii) Express 121 as the sum of 11 odd numbers. (2m)
