

Time: 1 hour

CADET COLLEGE KALLAR KAHAR Total Marks: 60

Entrance Test– Class 7th 2025

Paper: Mathematics

Note: All questions are compulsory. Calculators are not allowed.

Q No 1 (a) : If $N=\{1,2,3,\dots\}$ and $W=\{0,1,2,\dots\}$ then find $N \cup W$ and $N \cap W$

(b): Find the sum of following rational number $1\frac{1}{3} + \frac{5}{2} + \frac{1}{4}$

Q No 2 (a): The area of a rectangular park is equal to another square park. Find the length of a square shaped park if the length and breadth of the rectangular park are 81m and 25m respectively

(b): Find the square root of 4986289 by division method

Q No 3 (a): Harris bought a jewelry set for Rs. 84000 and sold for Rs. 85500. Find the percentage of the profit.

(b): What should be added to $3 + 2x - x^3y^2 + 4x^2y$ to get $2x^3y^2 + x^2y - 3x - 1$

Q No 4 (a): Factorize $x^2 - 2x + 1$

(b): Find the solution of following equation $\frac{8x+4}{16-4x} = 1$

Q No 5 (a): Find the surface area of an oil drum whose length is 1.6 m and diameter 63 cm

(b): Multiply $(2x - 1)(x^2 - 5x + 6)$

Q No 6 (a): If a girl can skip a rope 800 times in 1 hour. How many times can she skip in 35 minutes

(b): Iram bought $\frac{3}{4}$ kg tomatoes, $\frac{1}{2}$ kg potatoes, $\frac{1}{4}$ kg carrots and 2 kg apples from a market. How much weight of vegetables and fruits did she carry from the market.