SIDDEEQ PUBLIC SCHOOL

MODEL PAPER of MATHEMATICS for ADMISSION to Grade: 8
(Max. Marks:35)

Objective

Q1. Complete the following mathematical statements. (1.0×4)

(i) The square root of additive identity is_____.

(ii) Base and exponent of expression $(x - y)^3$ are _____ and _____ respectively.

(iii) When we convert 36 km/ h into m/s, we get_____.

(iv) If A= { 0,1,2,3....}, B= set of Natural numbers then difference of A & B is _____.

Computational Strategies

Q2. Verify the Distributive Property: $2\frac{2}{3} \times (\frac{1}{2} - 6) = (2\frac{2}{3} \times \frac{1}{2}) - (2\frac{2}{3} \times 6)$ (4.0)

Q3. Find the **product** of **$(2x + 5y)$ and $(2x - 5y)$ by** using **suitable identity.** (4.0)

Q4. Find the solution of $\frac{5}{2}(\frac{3}{2} - 2x) + \frac{3}{2}(2x - \frac{5}{2}) = 0$ (4.0)

Q5. Find the square root of 151. 29 (4.0)

Problem Solving Skills, Geometry & Shapes

Q6. Find the perimeter of a **rectangular** park whose **length is three times of its width** and the **area is 720.75m^2**. (5.0)

Q7. 12 water pumps can empty a water tank in **20 minutes**. But **2 pumps got out of order**. **How long** will the **remaining pumps take** to empty the tank. (5.0)

Q8. Find the cost of carpeting the floor of circular shaped room having **radius of 21m** at the **rate of Rs 25/m^2**. $(\pi \approx \frac{22}{7})$ (5.0)