



## **D Y Patil International School, Nagpur**

**DYPISN/Academic/2024-25/ November/79**

**Date: 12<sup>th</sup> November 2024**

Dear parents,  
Greetings of the day!

We are thrilled to announce that an Inter DYPIS Math Competition is being organized, and is mandatory for students of Gr.6 to Gr. 8 to participate. This competition aims to showcase your mathematical skills and problem-solving abilities and to compete among DYP group of schools

Date: 28th November 2024  
Time: During School Hours  
Mode of Examination: Online

Question Paper Details:

Total questions: 25 multiple choice Questions, each carry 1 mark, divided into the following sections:

Section A: Numbers and Algebra – 10 Questions  
Section B: Geometry and Statistics – 10 Questions  
Section C: Logical Problems – 5 Questions

Duration: 30 Minutes

Class wise syllabus for the Competition given below:

Grade 6:

Section A (Algebra, Number)

- Order of Operations
- Working with numbers (including LCM, HCF)
- Integers, Fraction & Decimals
- Sequences
- Percentage
- Time
- Exponents

Section B (Geometry, Statistic)

- Properties of 2D Shapes and Circle
- Basic elementary shapes
- Lines and Angles
- Data handling and Bar Graph

Section C (Logic Problems)

- Solving puzzles and problems involving logical reasoning and deduction.

Grade 7:

Section A (Algebra, Number)

- Integers and Order of Operations: BODMAS/BIDMAS
- Formula Substitution
- Algebraic expansions
- Sequences
- Percentage
- Fraction & Decimals
- Ratios and proportions
- Exponents
- Speed, Distance and Time

Section B (Geometry, Statistic)

- Properties of 2D Shapes and Circle
- Area and Circumference of Circle
- Surface area and volume: Cubes, cuboids
- Lines and Angles
- Symmetry
- Data handling, Bar Graph, Histogram

Section C (Logic Problems)

- Solving puzzles and problems involving logical reasoning and deduction.

Grade 8:

Section A (Algebra, Number)

- Formula Substitution
- Algebraic expansions and linear and simultaneous equations
- Sequences
- Ratios and proportions
- Exponents- applying laws of indices
- Standard Form
- Percentages – increase/decrease/profit/loss
- Simple interest and compound interest

Section B (Geometry, Statistic)

- Probability of Simple and Combined events.
- Discrete and continuous data
- Histograms/ Frequency polygons
- Properties of 2D shapes and circles
- Surface area and volume of 2D and 3D shapes- Cubes, cuboids
- Lines, Angles and Triangles

Section C (Logic Problems)

- Solving puzzles and problems involving logical reasoning and deduction.

Regards

DYPIS, Nagpur

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