

NATIONAL PRIMA TALENT OLYMPIAD EXAMINATIONS

CLASS IX

MATHEMATICS

NUMBER SYSTEM

- Tests of divisibility
- Prime and composite numbers
- Properties of numbers

SIMPLIFICATIONS

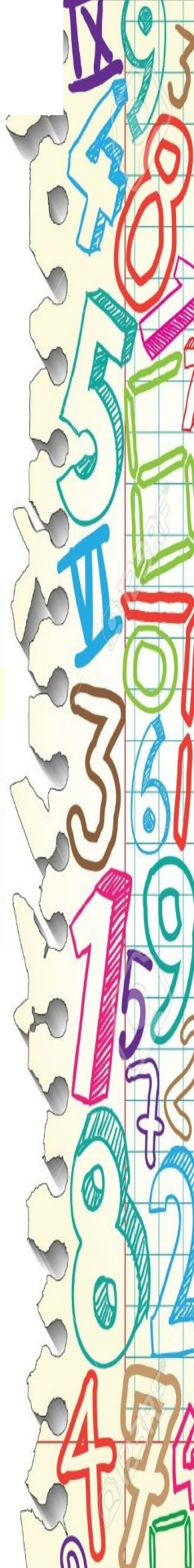
- Four fundamental operations
- Principle of BODMAS

FRACTIONS

- Kinds of fractions
- Four fundamental operations
- Using BODMAS
- Continued fractions
- LCM and HCF
- Real life applications of fractions
- Rounding off

REAL NUMBERS

- Rationalising factor
- Real numbers and their decimal expansion
- Irrational numbers



SQUARES AND SQUARE ROOTS

- Properties of Square numbers

CUBES AND CUBE ROOTS

- Properties of cube numbers

RATIO AND PROPORTION

- Comparing ratios
- Continues Ratio
- Proportion
- Continued proportion
- Direct proportion
- Inverse Proportion

PERCENT AND PERCENTAGE

- Percentage application in daily life

ALGEBRA

- Algebraic Expressions
- Four Fundamental operations

EXPONENTS

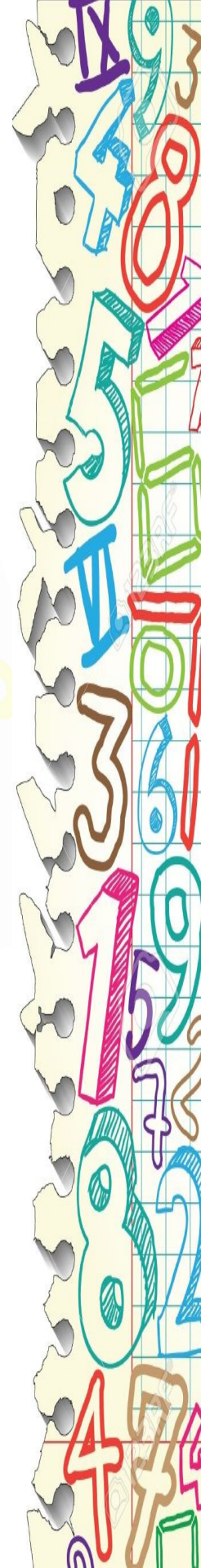
- Laws of exponents

TRIANGLES

- Interior and exterior angles of a triangle

POLYGON

- Types of polygons
- Sum of angles of polygon
- Sum of exterior angles of a polygon
- Regular polygon



COMPOUND INTEREST

- Applications of Compound interest in real life

AREA AND PERIMETER

- Triangles and Quadrilateral

TRIGONOMETRY

- Trigonometrical Ratios
- Trigonometrical Ratios of standard angles.
- Solution of right angles
- Complementary Angles

Compound Interest

- Rational & Irrational numbers
- Trigonometry
- Algebraic expansion
- Mean & median
- Area & perimeter of plane figures and solids.

