

ZTSE-ZenQuest Talent Search Exam

Young Wizard 6 to 8



Time: 60 Minutes Maximum

Marks: 40

Number of Questions: Maths – 20 | Reasoning – 10 | Vedic Maths – 10

Grade 6 – ZTSE 2025

Mathematics

- Numbers (Integers, Whole Numbers, Negative Numbers)
- HCF & LCM
- Fractions & Decimals
- Ratio, Proportion & Percentage
- Speed, Time & Distance
- Algebra (basic introduction)
- Geometry (Angles, Triangles, Circles, Polygons)
- Perimeter, Area & Volume
- Symmetry & Patterns
- Data Handling (Bar Graphs, Pictographs, Pie Charts)

Reasoning

- Number & Alphabet Series
- Coding-Decoding
- Blood Relations
- Direction & Distance
- Analogy
- Mirror & Water Images
- Venn Diagrams
- Mathematical Puzzles

Vedic Maths

- Nikhilam Method (multiplication near base numbers)
- Squaring 2-digit numbers
- Division shortcuts
- Quick multiplication tricks

Grade 7

Mathematics

- Integers & Rational Numbers
- Exponents & Powers
- Algebraic Expressions (Addition, Subtraction, Simplification)
- Simple Linear Equations
- Ratio, Proportion & Percentage (Profit, Loss, Discount)
- Speed, Time, Distance & Average
- Geometry (Lines, Angles, Triangles, Quadrilaterals, Circles)
- Area & Perimeter (Advanced)
- Surface Area & Volume (Cube, Cuboid, Cylinder)
- Data Handling (Probability basics, Mean, Median, Mode)

Reasoning

- Mathematical & Logical Puzzles
- Coding-Decoding (Advanced)
- Series Completion
- Blood Relations
- Statement & Conclusion
- Non-Verbal Reasoning (Figures, Patterns)
- Mirror & Water Images
- Calendar & Clock Problems

Vedic Maths

- Vertically & Crosswise (3-digit multiplication)
- Squaring numbers ending with 5
- Approximation techniques
- Algebraic shortcuts $(a+b)^2$, $(a-b)^2$



Grade 8

Mathematics

- Rational Numbers & Irrational Numbers
- Algebra (Equations in one variable, Identities)
- Factorization
- Square Roots & Cube Roots
- Exponents & Powers (Laws of Indices)
- Percentage, Profit, Loss & Discount
- Simple & Compound Interest
- Speed, Time, Distance, Work Problems
- Geometry (Congruency, Similarity, Circles, Polygons)
- Mensuration (Surface Area & Volume of Sphere, Cylinder, Cone)
- Data Handling & Probability

Reasoning

- Statement & Assumptions
- Coding-Decoding (High level)
- Syllogisms (basic)
- Number & Alphabet Series
- Blood Relations & Family Tree
- Venn Diagrams (complex)
- Mathematical Puzzles
- Non-Verbal Reasoning (Embedded Figures, Pattern Completion)

Vedic Maths

- Advanced Nikhilam method
- Squaring & Cubing shortcuts
- Square roots approximation
- Multiplication & Division of large numbers
- Algebra tricks (factorization shortcuts)

