Entrance Exam Maths Topics

Number and Algebra

Fractions (including simplifying, equivalence and fractions of amounts).
Place Value (from 3 decimal places up to one million - includes rounding to two decimal places)
A the four operations:
- addition (up to tens of thousands)
- subtraction (up to tens of thousands)
- multiplication (including multiplying large numbers by two digits)
- division (including division of large numbers by two digits)
Negative numbers
Number machines
Magic squares
Equations:
- balancing equations
- solving equations
- composing algebraic expressions
Factors
Divisibility
Multiples
Square numbers
Cube numbers
Powers
Prime numbers
Relationship between fractions, decimals and percentages.
Percentages of amounts.

Handling Data

Frequency tables
Bar charts
Pie charts
Line Graphs
Venn Diagrams
Carroll Diagrams
Averages:
- Mean
- Mode
- Median
- Range
Probability

Space, Shape and Measures

Recognition of 2D and 3D shapes (including knowledge of their properties).
Triangles:
- types of triangle (right-angled, isosceles, equilateral, scalene)
- types of angle (acute, obtuse, reflex, right)
- degrees in a triangle (180)

Degrees in a circle/ full rotation (360)
Symmetry
Rotational symmetry
Co-ordinates
Area of compound shapes
Area of triangles
Perimeter of compound shapes
Perimeter of triangles
Ratio and proportion
Estimating measures
Measures:
- kg, g, l, ml, cl, m, cm, mm
- converting from grammes to kilos etc.
- the calendar (days in a year/ leap year/ days in each month etc.
- Hours, minutes, days etc.
- Time (including 24 hour clock)

Other skills

Reading the question carefully.

Understanding the question.

Speed - your child must work rapidly to complete the exam in the time allotted.

Answering every question - all questions must be answered, whether they are guessed or not.