

TOPICS TO STUDY FOR MATHCON

- ❖ The following topics provide a framework for MathCON.
- ❖ These topics are not curriculum.
- ❖ It is recommended that students review previous grade topics.
- ❖ Any grade level's topics are related to the previous grade level and promote continuous improvement over the years.
- ❖ A MathCON test consists of multiple-choice questions covering the following topics:
Algebra, Geometry, Number Theory, and Combinatorics
- ❖ There could be questions from different topics that aren't listed below at MathCON.

TOPICS TO STUDY FOR MATHCON

4TH GRADE MATH

- ❖ Number sense
- ❖ Addition, Subtraction, Multiplication, Division of Whole Numbers
- ❖ Factors and multiples
- ❖ Prime and composite numbers
- ❖ Pattern of numbers (sequences) and shapes
- ❖ Writing numbers in expanded form
- ❖ Rounding whole numbers
- ❖ Add and subtract fractions with unlike denominators
- ❖ Mixed operations / Variable expressions
- ❖ Multiply and Divide Fractions
- ❖ Addition, Subtraction, Multiplication, Division of Decimal Numbers
- ❖ Comparing whole numbers, fractions, and decimal numbers
- ❖ Measurement of length, weight, distance, time, mass, volume, ... and their units
- ❖ Area and perimeter of a rectangle
- ❖ Angle, measurement of an angle, types of angles
- ❖ Points, lines, line segments, rays, parallel or perpendicular lines
- ❖ Right triangles
- ❖ Line of symmetry
- ❖ Coordinate Plane and Graphs
- ❖ Two-dimensional figures
- ❖ Three Dimensional Figures
- ❖ Least Common Multiple, Greatest Common Factor Problems
- ❖ Mean (average), mode, median, range problems