

SHSAT Math Topics

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Generally: rates/ratios/proportions, geometry, algebra, data analysis/statistics, probability, mean

7th: time, mean, rates, proportions and ratios, slope, linear equations, rational numbers, perimeter, area, volume, circumference, "percent" problems including discounts/taxes/etc, counting, fractions, decimals (including repeating), geometrically similar object and their scaling, number line including scaling and negative units, absolute value, adding and subtracting involving negative and positives, algebra involving one variable of various sorts, rules and truisms involving intersecting lines, circles/triangles/quadrilaterals/polygons/cubes/right prisms, angles and their sums/interior/exterior/within polygons, parallel lines, population inferences and X-way tables, word problems, multi-step solutions, chance and probability including factorials, from lists and data sets, unit conversions, parallelogram, trapezoid, octagon, rectangle, square, order of operations, numeric patterns, prime number, prime factorization, factors, GCF, LCM, mixed fractions, fraction ordering, conversion to/from decimals/fractions

8th: graphing/slope/intercept/distance, outliers, number line, FOIL, solving linear equations, inequalities, shaded regions, using functions including comparing/rate of change/interpreting/input/output, geometric similarity and congruence, Pythagorean Theorem, right triangles, translations/rotations/reflections/dilations/clockwise/counterclockwise/90/180/270, more slope/coordinates/grids/distances, more cones/cylinders/spheres/volume, radical numbers, exponents, square and cube roots, scientific and decimal notations and conversions thereof, percent involving interest

Also throughout is reemphasize of algebra and other mathematical concepts learned in all years. You're also expected to do out of the box thinking to address "novel situations."

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