

Topics 2015 – 2016

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Meet	Category 1 MYSTERY	Category 2 GEOMETRY	Category 3 NUMBER THEORY	Category 4 ARITHMETIC	Category 5 ALGEBRA
1	?	Angle measures in plane figures including supplements and complements	Divisibility rules, factors, primes, composites	Order of operations; mean, median, mode; rounding; statistics	Simplifying and evaluating expressions; solving equations with 1 unknown including identities
2	?	Area and perimeter of polygons	GCF, LCM, prime factorization	Fractions, terminating and repeating decimals, percents	Word problems with 1 unknown; working with formulas; reasoning in number sentences
3	?	Properties of polygons; Pythagorean Theorem	Bases, scientific notation	Integral powers (positive, negative, and zero), roots up to the sixth	Absolute value; inequalities in one variable including interpreting line graphs
4 calculator meet	?	Properties of circles	Modular arithmetic, series and sequences	Percent applications Percent change Compound interest	Word problems (linear, including direct proportions or systems)
5 calculator meet	?	Solid geometry (volume and surface area)	Set theory, Venn diagrams	Combinatorics and Probability	Solving quadratics with rational solutions, including word problems

- Team round may include coordinate plane transformational geometry.
- Acceptable Answer Formats:
 - All money answers must be written with 2 decimal places.
 - A common fraction is written as a/b where a and b are natural numbers with no common factors. a may or may not be greater than b .
 - Unnecessary zeros written at the end of a decimal will be marked incorrect.
- Calculators will be allowed in both meets 4 and 5. Please provide them for your team members.
- Programmable/graphing calculators are **not** allowed.