5ᵗʰ Grade Math Club 2018-2019 Curriculum

Topic	Subtopics	Notes
Geometric Sense I *Fun Mental math*	Geometry, Angles and Triangles overview Khan Academy	Explain what an angle is, and what the unit of measurement is (degrees). Explain the properties of a triangle (sum of angles is 180). Talk about different kinds of triangles (right, isosceles, equilateral, scalene). Homework Solution
Number Sense I *Fun Mental math*	GCF, LCM, Primes Khan Academy	Prime numbers. Divisibility rules for 1, 2, 3, 4, 5, 6, 7, 8, 9, and 10. Factors, and how to factor a number. Greatest Common Factor (GCF). Multiples, and how to find the Least Common Multiple (LCM) Homework Solution
Number Sense II *Fun Mental math*	Fractions, Decimals, Percentages Khan Academy	Finding equivalent fractions, and reducing fractions to lowest terms. How to convert between fractions, decimals, and percentages. (Conversion between these different number representations is a fundamental skill that will be used throughout the rest of Math Club, so it's important to master this skill early.) Homework Solution
Number Sense III	Ratios and fraction arithmetic	Ratios and proportions. Equivalent ratios and comparing two ratios to see if they're equivalent. Continued ratios (more than two quantities). Improper fractions vs. proper fractions vs. mixed numbers. How to add and subtract fractions,

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	Khan Academy	especially with different denominators. How to multiply fractions. Homework Solution
Number Sense IV	Exponents and order of operations Khan Academy	Explain what an exponent is (34 is 3x3x3x3). Also cover the term "square number", "cube number", "square root", and "cube root". Explain the precedence order for operations, both when parentheses are present and not present (first exponents, then mult/div, then add/subtract). Homework Solution
Measurement I	Conversion between units Khan Academy	Practice converting between all different kinds of units (simple whole number conversions only) -- days/weeks, inches/feet, meters/kilometers, pounds/ounces, etc. Homework Solution