



5th Grade Math Standards

Number & Operations (NO)

[MAT-05.NO.CC.01](#) Read and write decimals to the thousandths including standard, word, and expanded forms.

[MAT-05.NO.NBT.03](#) Apply place value understanding to round decimals to any place.

[MAT-05.NO.NBT.04](#) Multiply multi-digit whole numbers using strategies flexibly, including the algorithm.

[MAT-05.NO.NBT.05](#) Use concrete models, drawings, place value strategies, properties of operations and/or relationships to add, subtract, and multiply decimals to hundredths.

[MAT-05.NO.NBT.06](#) Find whole-number quotients and remainders with up to four-digit dividends and two digit divisors using place value strategies. Show and justify the calculation by using equations, rectangular arrays, and/or area models.

[MAT-05.NO.NBT.07](#) Explain patterns in the number of zeros of the product when multiplying a number by powers of 10. Explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

[MAT-05.NO.NF.01](#) Generate equivalent forms of commonly used fractions and decimals (e.g., halves, fourths, fifths, tenths).

[MAT-05.NO.NF.03](#) Solve authentic word problems by adding and subtracting fractions and mixed numbers with unlike denominators using visual fraction models and equations.

[MAT-05.NO.NF.04](#) Solve authentic word problems by multiplying fractions and mixed numbers using visual fraction models and equations.

Algebraic Reasoning (AR)

[MAT-05.AR.OA.01](#) Automatically multiply and divide through 12 x 12.

[MAT-05.AR.OA.02](#) Analyze problems using the order of operations to solve and evaluate expressions while justifying thinking.

[MAT-05.AR.OA.04](#) Find factor pairs and multiples within the range of 1-100 while classifying numbers as prime or composite.

Geometry and Measurement (GM)

[MAT-05.GM.G.03](#) Form ordered pairs and graph points in the first quadrant on the coordinate plane to solve authentic word problems.

[MAT-05.GM.M.01](#) Generate conversions among different sized standard measurement units within a given measurement system, both customary and metric systems. Use these conversions in solving multistep,

authentic word problems.

[MAT-05.GM.M.02](#) Find the area and perimeter of a rectangle, including connected rectangular figures, with fractional side lengths.

Data, Probability, and Statistics (DPS)

[MAT-05.DPS.D.02](#) Utilize graphs and diagrams to represent, analyze, and solve authentic word problems using information presented in one or more tables or line plots including whole numbers, fractions, and decimals.

Primary Resource(s): Math Investigations and Dreambox