



**KENOSHA UNIFIED SCHOOL DISTRICT NO. 1
INSTRUCTIONAL SERVICES**

**STANDARDS AND BENCHMARKS
MATHEMATICS**

MATH APPLICATIONS
STANDARD A: MATHEMATICAL PROCESS
Representation, Reasoning, Problem Solving
Communication, Connections
<i>I can use reasoning and logic to formulate, analyze, and solve problems, and to test the reasonableness of my results.</i>
<i>A-1.11A</i>
<i>I can clearly communicate mathematical concepts either orally or in written form.</i>
<i>A-2.11A</i>
<i>I can use a computer or a calculator as a problem-solving tool.</i>
<i>A-3.11A</i>
<i>I can read and interpret mathematical text and other mathematical representations (e.g., numbers, symbols, diagrams, models).</i>
<i>A-4.11A</i>
STANDARD B: NUMBER OPERATIONS AND RELATIONSHIPS
Number Concepts
Number Computation
<i>I can select and use appropriate computational procedures.</i>
<i>B-1.11A</i>
<i>I can perform and explain operations on real numbers, (e.g., add, subtract, multiply, divide, raise to a power, extract a root, take opposites and reciprocals, determine absolute value)</i>
<i>B-2.11A</i>
<i>I can write and solve proportions, including percents.</i>
<i>B-3.11A</i>
<i>I can analyze and solve problems using proportional reasoning.</i>
<i>B-4.11A</i>
<i>I can compare real numbers using ratios, proportions, percents, rates of change.</i>
<i>B-5.11A</i>
<i>I can determine the reasonableness of answers.</i>
<i>B-6.11A</i>
<i>I can use mental math.</i>
<i>B-7.11A</i>
STANDARD C: GEOMETRY
<i>Two- and Three-Dimensional Figures</i>
<i>Spatial Relationships and Transformations</i>
<i>Coordinate Systems</i>
<i>I can identify, describe, and analyze properties of two- and three- dimensional figures, relationships among figures, and relationships among their parts.</i>
<i>C-1.11A</i>
<i>I can identify and classify various types of angles.</i>
<i>C-2.11A</i>
STANDARD D: MEASUREMENT
Measurable Attributes/Units
Direct Measurement
Indirect Measurement
<i>I can determine the precision and accuracy of numbers in measurement (significant digits).</i>
<i>D-1.11A</i>

Most essential benchmarks appear in bold, italicized print.

MATH APPLICATIONS
<i>I can measure with the appropriate degree of precision (1/16 inch and millimeter)</i> D-2.11A
<i>I can select and use the appropriate measurement tools (e.g., ruler, protractor).</i> D-3.11A
<i>I can use dimensional analysis in conversions (e.g., U.S. customary, metric).</i> D-4.11A
<i>I can determine the perimeter and area of various polygons (regular and irregular) and circles.</i> D-5.11A
<i>I can determine the surface area and volume three-dimensional figures.</i> D-6.11A
<i>I can use the Pythagorean Theorem and right-triangle trigonometry to solve problems.</i> D-7.11A
<i>I can use the relationships in special right triangles (45-45-90 and 30-60-90) to find missing lengths.</i> D-8.11A
<i>I can use formulas in applications (e.g., sales tax, interest, commission, tolerance)</i> D-9.11A
STANDARD E: STATISTICS AND PROBABILITY
Data Analysis and Statistics
Probability
<i>I can read and construct a variety of graphs (e.g., bar graph, line graph, circle)</i> E-1.11A
<i>I can calculate measures of central tendency, dispersion, and standard deviation</i> E-2.11A
STANDARD F: ALGEBRAIC RELATIONSHIPS
Patterns, Relations, and Functions
Expressions, Equations, Inequalities
Properties
<i>I can simplify and evaluate expressions and formulas.</i> F-1.11A
<i>I can use the properties of operations (e.g., commutative, associative, distributive) to simplify expressions.</i> F-2.11A
<i>I can add, subtract, multiply, and divide algebraic expressions.</i> F-3.11A
<i>I can simplify multi-step order of operations expressions.</i> F-4.11A
<i>I can solve all types of linear equations.</i> F-5.11A
<i>I can solve systems of linear equations.</i> F-6.11A
<i>I can solve quadratic equations.</i> F-7.11A
<i>I can model and solve a variety of problems by using algebraic expressions, equations, and systems of equations.</i> F-8.11A