

3501.0740 GRADE 8 STANDARDS.

Subpart 1. **Number and operation.** The student will read, write, compare, classify, and represent real numbers, and use them to solve problems in various contexts.

Subp. 2. **Algebra.**

A. The student will understand the concept of function in real-world and mathematical situations, and distinguish between linear and nonlinear functions.

B. The student will recognize linear functions in real-world and mathematical situations. The student will represent linear functions and other functions with tables, verbal descriptions, symbols, and graphs. The student will solve problems involving these functions and explain results in the original context.

C. The student will generate equivalent numerical and algebraic expressions and use algebraic properties to evaluate expressions.

D. The student will represent real-world and mathematical situations using equations and inequalities involving linear expressions. The student will solve equations and inequalities symbolically and graphically. The student will interpret solutions in the original context.

Subp. 3. **Geometry and measurement.**

A. The student will solve problems involving right triangles using the Pythagorean Theorem and its converse.

B. The student will solve problems involving parallel and perpendicular lines on a coordinate system.

Subp. 4. **Data analysis and probability.** The student will interpret data using scatterplots and approximate lines of best fit. The student will use lines of best fit to draw conclusions about data.

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