



Alignment of Nebraska State Standards with Solve It!

STANDARD	DESCRIPTION	ALIGNMENT WITH <i>SOLVE IT!</i>
NUMBER SENSE STANDARD	Students will communicate number sense concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	<ul style="list-style-type: none"> • Computing (“compute fluently and accurately using appropriate strategies and tools”; “select, apply, and explain the method of computation when problem solving using integers and positive rational numbers”) • Estimation (“estimate and check reasonableness of answers using appropriate strategies and tools”; “distinguish relevant from irrelevant information, identify missing information and either find what is needed or make appropriate estimates”) • Hypothesizing (“select, apply, and explain the method of computation when problem solving”) • Check (“check reasonableness of answers using appropriate strategies and tools”) • Concepts of Operations (“demonstrate the meaning of arithmetic operations with positive fractions, decimals, and integers”)
GEOMETRIC/ MEASUREMENT STANDARD	Students will communicate geometric concepts and measurement concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	<ul style="list-style-type: none"> • Estimation (“estimate and measure length with customary units to the nearest ¼ inch”) • Visualizing (“build or sketch a geometric model to solve a problem, sketch congruent shapes”; “use visualization of geometric models to solve problems”)
ALGEBRAIC STANDARD	Students will communicate algebraic concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	<ul style="list-style-type: none"> • Visualizing (“represent a variety of quantitative relationships using tables and graphs”; “model contextualized problems using various representations, e.g., graphs, tables”) • Discussion of Solution Paths (“compare different models to represent mathematical situations”)

continued





Alignment of Nebraska State Standards with Solve It!

STANDARD	DESCRIPTION	ALIGNMENT WITH <i>SOLVE It!</i>
DATA ANALYSIS/ PROBABILITY STANDARD	Students will communicate data analysis/probability concepts using multiple representations to reason, solve problems, and make connections within mathematics and across disciplines.	<ul style="list-style-type: none">• Estimation (“make predictions based on data to answer questions from tables, bar graphs, and line plots”)• Computing (“compute theoretical probabilities for independent events”)

