

ALGEBRA I

translate written phrases into algebraic expressions / vice versa.	obtain solutions to simple one-step equations.
obtain solutions to problems by recognizing a predictable visual or numerical pattern.	solve a one variable equation that requires more than one operation.
correctly apply the order of operations in finding the value of algebraic expressions.	identify, describe, and apply measures of complementary and supplementary angles.
interpret data shown in a stem-and-leaf graph.	determine the unknown angle of a given triangle by using the measures of the other 2 angles and the triangle sum theorem.
display data in a stem-and-leaf plot.	solve a one-variable equation which has the variable on both sides of the equation.
solve open sentences by performing arithmetic operations.	manipulate a given formula to solve for one of the variables.
recognize & apply the symmetric, reflexive, transitive, & substitution properties of equality.	apply the mean, median, and mode of a data set to describe the central tendency of the data.
apply the following properties: commutative, associative, distributive, identity, & reciprocal.	obtain solutions to proportions including the use of the means-extremes property.
recognize points on a number line.	find missing measures in similar triangles by applying proportions.
plot points on a number line.	graph ordered pairs on a coordinate plane.
add integers using a number line.	recognize the domain and range.
comprehend data that is displayed in a table.	show relations as set of ordered pairs, tables, mappings, and graphs.
interpret information presented in a line plot.	find the inverse of a relation.
apply the idea of the absolute value of real numbers.	determine the range for a given domain and vice versa.
add and subtract integer numbers.	make a graph of a linear function from a table or rule.
place a set of rational numbers in order.	determine the difference between functions & relations.
compare rational numbers using the symbols $<$, $>$, or $=$.	
perform operations with rational numbers.	
calculate square roots of rational numbers.	
make translations of verbal sentences into algebraic equations.	

write equations to represent relations.
determine slope from two points graphically & algebraically.
write the equation of a line given the slope and one or two points on the line.
write a given equation of a line in standard form.
interpret data shown in a scatterplot.
determine the equation for the line of best fit of a set of real-world data.
find the intercepts of a linear equation.
write the slope-intercept form of an equation of a line.
graph a linear equation.
determine if two lines are parallel or perpendicular.
determine the equation of a line given a point on the line and the equation of a parallel line.
determine the equation of a line given a point on the line and the equation of a perpendicular line.
find the midpoint of a line segment when presented with its coordinates.
solve a one variable inequality that requires one operation.
graph, on a number line, the solutions to an inequality.
solve linear inequalities involving more than one operation.
obtain solutions to compound inequalities with one variable.

obtain solutions to absolute value inequalities.
interpret box-and-whisker plots.
display data in a box-and-whisker plot.
graph a given linear inequality which contains two variables.
solve a system of linear equations by graphing.
obtain solutions to systems of linear equations by substitution.
apply the elimination method to obtain a solution to a system of two linear equations.
represent systems of inequalities on a coordinate graph.
multiply monomials.
perform division of monomials.
convert numbers between standard and scientific notation.
multiply numbers given in scientific notation.
perform division on numbers in scientific notation.
classify polynomials using the number of terms in the expression and their degree.
arrange the terms of a polynomial so that the powers of a variable are in ascending or descending order.
add polynomials.
subtract polynomials.
multiply a monomial and a polynomial.
multiply two polynomials.
use patterns to find the square of a sum, the square of a difference, and the difference of squares.

find prime factorizations of integers.
find greatest common factors for sets of monomials.
factor a monomial from a given polynomial.
factor trinomials, perfect square trinomials, or the difference between two squares.
solve polynomial equations by factoring.
find the equation of the axis of symmetry and the coordinates of the vertex of a parabola.
graph a quadratic equation on the coordinate plane.
solve quadratic equations through graphing.
describe the discriminant, identify the quadratic formula and solve an equation using the quadratic formula.
simplify rational expressions.
multiply rational expressions.
divide rational expressions.
divide a polynomial by a monomial.
divide a polynomial by another polynomial which is of a lower degree.
add and subtract rational expressions with like denominators.
add and subtract rational expressions with unlike denominators.
obtain solutions to rational equations.
use the Pythagorean Theorem to determine an unknown side length of a right triangle.
simplify radical expressions with square roots.

simplify numerical expressions containing radicals.
simplify radical expressions involving addition, subtraction, and multiplication.
solve basic radical equations.
use the distance formula to find the distance between two coordinate points.