## Foundations of Algebra

Can you...
$\square$ Write mathematical expressions for verbal expressions?
W Write verbal expressions for mathematical expressions?
$\square$ Evaluate numerical and algebraic expressions by using the order of operations?
$\square$ Use the distributive property to evaluate and/or simplify algebraic expressions?
$\square$ Recognize and use the commutative and associative properties to simplify algebraic expressions?

- Classify and graph real numbers?
$\square$ Find square roots and order real numbers?


## Solving Equations

## Can you...

$\square$ Translate verbal sentences into equations?
$\square$ Translate equations into verbal sentences?
$\square$ Solve equations using addition and subtraction?
$\square$ Solve equations using multiplication and division?
$\square$ Solve equations involving more than one operation?
$\square$ Solve consecutive integer problems?
$\square$ Solve equations with the variable on each side?
$\square$ Solve equations involving grouping symbols?
$\square$ Determine whether two ratios form a proportion?
$\square$ Solve proportions?
$\square$ Solve equations for given variables?

## Inequalities

Can you...
$\square$ Solve and graph inequalities using addition and subtraction?
. Solve and graph inequalities using multiplication and division?
$\square$ Solve and graph compound inequalities?

## Functions and Relations

Can you...
$\square$ Represent relations as sets of ordered pairs, tables, mappings, and graphs?
$\square$ Find the inverse of a relation?
$\square$ Determine whether a relation is a function?
$\square$ Find functional values? $f(x)$

## Graphing Linear Equations

Can you...
$\square$ Identify linear equations, intercepts and zeros?
G Graph linear equations?
$\square$ Recognize arithmetic sequences?
Extend and write formulas for arithmetic sequences?
$\square$ Use rate of change to solve problems?
$\square$ Find the slope of the line?
$\square$ Write and graph linear equations in slope-intercept form?
$\square$ Write an equation of a line given the slope and one point on a line?
$\square$ Write an equation of a line given two points on the line?
$\square$ Write the equation of a line in point-slope form?
$\square$ Write linear equations in different forms?
$\square$ Interpret points on a scatter plot?
$\square$ Use lines of fit to make and evaluate predictions?

## Systems of Equations

Can you...
$\square$ Write an equation of the line that passes through a given point, parallel to a given line?
$\square$ Write an equation of the line that passes through a given point, perpendicular to a given line?
$\square$ Determine whether a system of linear equations has no, one, or infinitely many solutions?
$\square$ Solve systems of equations by graphing?
$\square$ Solve systems of equations by using substitution?
$\square$ Solve systems of equations by using elimination?
$\square$ Solve systems of equations by using elimination with multiplication?
$\square$ Determine the best method for solving systems of equations?
$\square$ Solve real-world problems involving systems of equations?

## Absolute Value and Graphing Inequalities

Can you...
$\square$ Solve absolute value equations?

- Solve and graph absolute value inequalities?

Graph inequalities in two variables?
Graph a system of inequalities in two variables?
$\square$ Determine the solution set of a system of inequalities?

