roadmap to ALGEBRA I

FUNCTIONS AND EQUATIONS

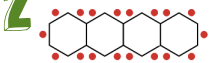
1 getting started

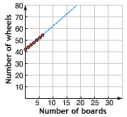
algebraic reasoning

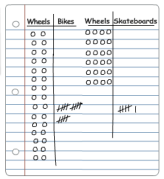
problem solving strategies

foundations of algebra

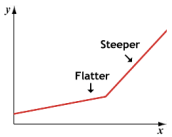
2 represent mathematical relationships in multiple ways







3 rate of change

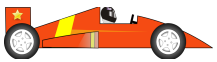


unit rates

rate of change

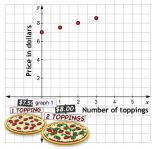
speed and rate

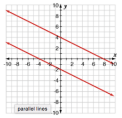
distance vs. time

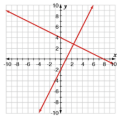


4 linear functions

use slopes and intercepts

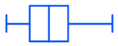




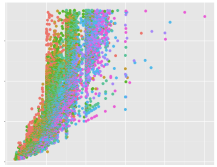


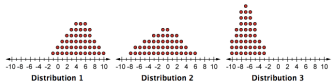
explore properties of parallel and perpendicular lines

5 statistical modeling

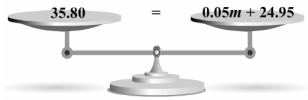


represent and analyze data





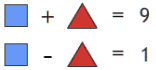
6 linear equations and inequalities



solve problems using linear equations and inequalities

calculate car payments

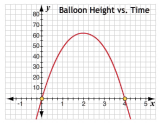
7 systems of linear equations



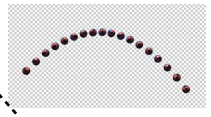
solve problems with equations containing two different variables

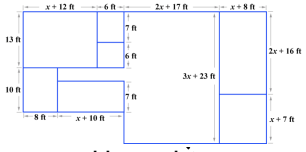
use:
-number sense
-modeling
-graphs
-tables
-equations

8 quadratic functions and equations



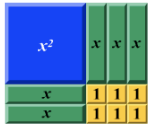
use quadratic functions to model problem situations





combine and multiply polynomials

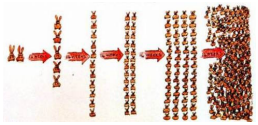
x^2+5x+6

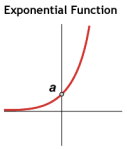


factor

9 other non-linear relationships

exponents and exponential functions





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