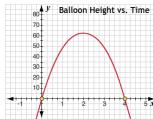
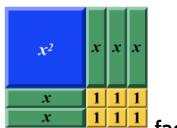


quadratic functions and equations



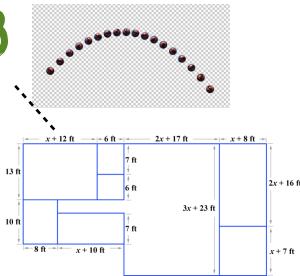
use quadratic functions to model problem situations

$$x^2 + 5x + 6$$



factor

8



combine and multiply polynomials

systems of linear equations

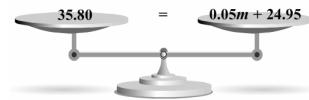
$$\begin{array}{l} \blacksquare + \blacktriangle = 9 \\ \blacksquare - \blacktriangle = 1 \end{array}$$



solve problems with equations containing two different variables

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

linear equations and inequalities



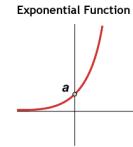
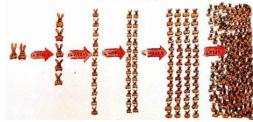
solve problems using linear equations and inequalities



calculate car payments

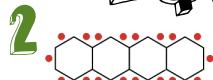
other non-linear relationships

exponents and exponential functions

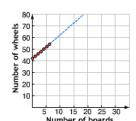


$$\sqrt[3]{\quad}$$

FUNCTIONS AND EQUATIONS



represent mathematical relationships in multiple ways



	Bikes	Wheels	Skateboards
0	0	0	0
1	1	2	0
2	2	4	0
3	3	6	0
4	4	8	0
5	5	10	0
6	6	12	0
7	7	14	0
8	8	16	0
9	9	18	0
10	10	20	0
11	11	22	0
12	12	24	0
13	13	26	0
14	14	28	0
15	15	30	0
16	16	32	0
17	17	34	0
18	18	36	0
19	19	38	0
20	20	40	0
21	21	42	0
22	22	44	0
23	23	46	0
24	24	48	0
25	25	50	0
26	26	52	0
27	27	54	0
28	28	56	0
29	29	58	0
30	30	60	0



roadmap to ALGEBRA I

getting started

algebraic reasoning

problem solving strategies



foundations of algebra

7

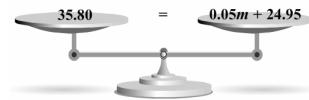
systems of linear equations



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

6

linear equations and inequalities



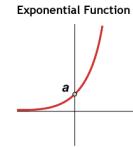
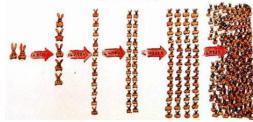
solve problems using linear equations and inequalities



calculate car payments

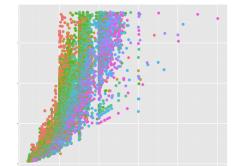
other non-linear relationships

exponents and exponential functions



$$\sqrt[3]{\quad}$$

statistical modeling

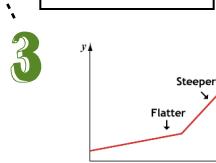


represent and analyze data



unit rates

rate of change



speed and rate

distance vs. time

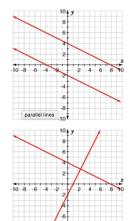
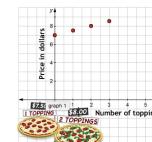


rate of change

linear functions

4

use slopes and intercepts



explore properties of parallel and perpendicular lines