

Scope and Sequence for CMP2

Deep understanding of the concepts and skills are developed in the units listed. In some cases, the topics are introduced in one unit and more fully developed in a later unit. In other cases, the topics are revisited in the same or other units in Connections questions, or are used to develop understanding of new concepts. The development

of a concept includes understanding relationships among and between concepts, as well as developing skills, procedures, and algorithms.

As a problem solving curriculum, every unit helps students develop a variety of strategies for solving problems, such as building models, making lists and tables, drawing diagrams, and solving simpler problems.

Key: I = introduced M = mastered R = reinforced; applied

Number and Operations			
	Grade 6	Grade 7	Grade 8
Whole Numbers			
divisors, factors, greatest common factor	<i>Prime Time</i> IM <i>Bits and Pieces I</i> R <i>Shapes and Designs</i> R <i>Covering and Surrounding</i> R <i>Data About Us</i> R	<i>Variables and Patterns</i> R <i>Comparing and Scaling</i> R <i>Accentuate the Negative</i> R <i>Filling and Wrapping</i> R	<i>Thinking With Mathematical Models</i> R <i>Growing, Growing, Growing</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Say It with Symbols</i> R
divisibility rules	<i>Prime Time</i> IM		<i>Growing, Growing, Growing</i> R <i>Say It with Symbols</i> R
multiples, least common multiple	<i>Prime Time</i> IM <i>Bits and Pieces I</i> R <i>Bits and Pieces III</i> R <i>Data About Us</i> R	<i>Comparing and Scaling</i> R	
even, odd numbers	<i>Prime Time</i> IM	<i>Variables and Patterns</i> R	<i>Say It With Symbols</i> R
prime numbers	<i>Prime Time</i> IM	<i>Filling and Wrapping</i> R	<i>Growing, Growing, Growing</i> R <i>Say It with Symbols</i> R
composite numbers	<i>Prime Time</i> IM		
squares	<i>Prime Time</i> IM <i>Shapes and Designs</i> R	<i>Stretching and Shrinking</i> R	<i>Looking for Pythagoras</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Say It with Symbols</i> R
square roots	<i>Prime Time</i> I	<i>Stretching and Shrinking</i> I	<i>Looking for Pythagoras</i> IM
prime factorization	<i>Prime Time</i> IM <i>Shapes and Designs</i> R		<i>Growing, Growing, Growing</i> R
place value	<i>Prime Time</i> R <i>Bits and Pieces I</i> R	<i>Data Around Us</i> R <i>Data Distributions</i> R	
comparing	<i>Prime Time</i> R	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>Data Distributions</i> R	<i>Thinking With Mathematical Models</i> R <i>Shapes of Algebra</i> R <i>Samples and Populations</i> R

Number and Operations (cont.)

	Grade 6	Grade 7	Grade 8
exponential form (notation)	<i>Prime Time IM</i> <i>Bits and Pieces III R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Accentuate the Negative R</i>	<i>Growing, Growing, Growing R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
laws of exponents			<i>Growing, Growing, Growing IM</i> <i>Say It with Symbols R</i>
Decimals			
place value	<i>Bits and Pieces I IM</i> <i>Bits and Pieces III R</i>	<i>Data Distributions R</i>	<i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i>
models	<i>Bits and Pieces I IM</i> <i>Bits and Pieces III R</i>	<i>Comparing and Scaling R</i> <i>Stretching and Shrinking R</i>	<i>Looking for Pythagoras R</i>
on a number line	<i>Bits and Pieces I IM</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i>
comparing and ordering	<i>Bits and Pieces I IM</i> <i>Bits and Pieces II R</i> <i>Covering and Surrounding R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
related to fractions and percents	<i>Bits and Pieces I IM</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i>
terminating and repeating decimals	<i>Bits and Pieces III IM</i>		<i>Looking for Pythagoras R</i>
estimating/benchmarks	<i>Bits and Pieces I IM</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i>	<i>Comparing and Scaling R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Looking for Pythagoras R</i>
rounding	<i>Bits and Pieces I IM</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i>	<i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i>
scientific notation			<i>Growing, Growing, Growing IM</i>
operations with	<i>Bits and Pieces III IM</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Stretching and Shrinking R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>

Number and Operations (cont.)

	Grade 6	Grade 7	Grade 8
Fractions			
comparing and ordering	<i>Bits and Pieces I IM Shapes and Designs R Bits and Pieces II R Covering and Surrounding R Bits and Pieces III R How Likely Is It? R</i>	<i>Variables and Patterns R Comparing and Scaling R Accentuate the Negative R What Do You Expect? R Data Distributions R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Shapes of Algebra R Samples and Populations R</i>
related to decimals and percents	<i>Bits and Pieces I IM Bits and Pieces II R Bits and Pieces III R How Likely Is It? R Data About Us R</i>	<i>Stretching and Shrinking R Comparing and Scaling R What Do You Expect? R Data Distributions R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R</i>
equivalent	<i>Bits and Pieces I IM Shapes and Designs R Bits and Pieces II R Bits and Pieces III R How Likely Is It? R</i>	<i>Stretching and Shrinking R Comparing and Scaling R What Do You Expect? R</i>	<i>Growing, Growing, Growing R Samples and Populations R</i>
estimating/benchmarks	<i>Bits and Pieces I IM Bits and Pieces II R Bits and Pieces III R How Likely Is It? R</i>	<i>Comparing and Scaling R What Do You Expect? R Data Distributions R</i>	<i>Samples and Populations R</i>
models	<i>Bits and Pieces I IM Shapes and Designs R Bits and Pieces II R Bits and Pieces III R How Likely Is It? R</i>	<i>Comparing and Scaling R Filling and Wrapping R What Do You Expect? R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R</i>
reciprocals	<i>Bits and Pieces II IM</i>	<i>Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i>
operations with	<i>Bits and Pieces I I Shapes and Designs I Bits and Pieces II IM Covering and Surrounding R Bits and Pieces III R How Likely Is It? R Data About Us R</i>	<i>Variables and Patterns R Stretching and Shrinking R Accentuate the Negative R Moving Straight Ahead R Filling and Wrapping R What Do You Expect? R Data Distributions R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Say It with Symbols R</i>
Ratio and Proportion			
ratios, rates, unit rates	<i>Bits and Pieces I I Shapes and Designs I Bits and Pieces II I Bits and Pieces III I How Likely Is It? I Data About Us I</i>	<i>Variables and Patterns I Stretching and Shrinking I Comparing and Scaling IM Moving Straight Ahead R Filling and Wrapping R Data Distributions R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Shapes of Algebra R Samples and Populations R</i>

Number and Operations (cont.)

	Grade 6	Grade 7	Grade 8
equivalent ratios	<i>Bits and Pieces I I</i> <i>Shapes and Designs I</i> <i>Bits and Pieces II I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i>	<i>Stretching and Shrinking IM</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
proportions	<i>Bits and Pieces I I</i> <i>Bits and Pieces II I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i>	<i>Stretching and Shrinking I</i> <i>Comparing and Scaling IM</i> <i>Moving Straight Ahead R</i>	
comparing proportional and nonproportional relationships	<i>Bits and Pieces I I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>Variables and Patterns I</i> <i>Stretching and Shrinking I</i> <i>Comparing and Scaling IM</i> <i>Moving Straight Ahead R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i>
scaling/scale factors	<i>Bits and Pieces I I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i>	<i>Stretching and Shrinking IM</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
scale factors with similar 3-dimensional figures		<i>Filling and Wrapping IM</i>	
estimating	<i>Bits and Pieces I I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>Stretching and Shrinking I</i> <i>Comparing and Scaling IM</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i>
proportional reasoning	<i>Bits and Pieces I I</i> <i>Bits and Pieces II I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i>	<i>Variables and Patterns I</i> <i>Stretching and Shrinking I</i> <i>Comparing and Scaling IM</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
Percents			
related to fractions and decimals	<i>Bits and Pieces I IM</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Say It with Symbols R</i> <i>Samples and Populations R</i>

Number and Operations (cont.)

	Grade 6	Grade 7	Grade 8
models	<i>Bits and Pieces I</i> IM <i>Bits and Pieces III</i> R <i>How Likely Is It?</i> R	<i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>What Do You Expect?</i> R	<i>Samples and Populations</i> R
estimating/benchmarks	<i>Bits and Pieces I</i> IM <i>Bits and Pieces II</i> R <i>Bits and Pieces III</i> R <i>How Likely Is It?</i> R <i>Data About Us</i> R	<i>What Do You Expect?</i> R <i>Data Distributions</i> R	<i>Samples and Populations</i> R
finding	<i>Bits and Pieces I I</i> <i>Bits and Pieces III</i> IM <i>How Likely Is It?</i> R <i>Data About Us</i> R	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>Moving Straight Ahead</i> R <i>What Do You Expect?</i> R <i>Data Distributions</i> R	<i>Growing, Growing, Growing</i> R <i>Shapes of Algebra</i> R <i>Samples and Populations</i> R
percent of a number	<i>Bits and Pieces I I</i> <i>Bits and Pieces III</i> IM <i>How Likely Is It?</i> R <i>Data About Us</i> R	<i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>Moving Straight Ahead</i> R <i>What Do You Expect?</i> R <i>Data Distributions</i> R	<i>Growing, Growing, Growing</i> R <i>Say It with Symbols</i> R <i>Samples and Populations</i> R
solving problems with	<i>Bits and Pieces III</i> IM <i>How Likely Is It?</i> R	<i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>What Do You Expect?</i> R <i>Data Distributions</i> R	<i>Growing, Growing, Growing</i> R <i>Say It with Symbols</i> R <i>Samples and Populations</i> R

Integers

models	<i>Bits and Pieces II I</i>	<i>Accentuate the Negative</i> IM <i>Data Distributions</i> R	
opposites/inverse operations		<i>Accentuate the Negative</i> IM <i>Moving Straight Ahead</i> R	<i>Thinking With Mathematical Models</i> R <i>Say It with Symbols</i> R <i>Shapes of Algebra</i> R
absolute value		<i>Accentuate the Negative</i> IM	<i>Thinking With Mathematical Models</i> R
comparing and ordering		<i>Accentuate the Negative</i> IM <i>Data Distributions</i> R	<i>Thinking With Mathematical Models</i> R <i>Shapes of Algebra</i> R
on a number line	<i>Bits and Pieces II I</i>	<i>Accentuate the Negative</i> IM <i>What Do You Expect?</i> R	<i>Thinking With Mathematical Models</i> R
operations with		<i>Accentuate the Negative</i> IM <i>Moving Straight Ahead</i> R <i>What Do You Expect?</i> R	<i>Thinking With Mathematical Models</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Say It with Symbols</i> R <i>Shapes of Algebra</i> R
solving problems with	<i>Bits and Pieces II I</i>	<i>Accentuate the Negative</i> IM	<i>Say It with Symbols</i> R

Number and Operations (cont.)

	Grade 6	Grade 7	Grade 8
Irrational Numbers			
models	<i>Covering and Surrounding I How Likely Is It? I</i>	<i>Filling and Wrapping I</i>	<i>Looking for Pythagoras IM</i>
pi	<i>Covering and Surrounding IM Bits and Pieces III R How Likely Is It? R</i>	<i>Variables and Patterns R Filling and Wrapping R</i>	<i>Looking for Pythagoras R</i>
Pythagorean Theorem			<i>Looking for Pythagoras IM Shapes of Algebra R</i>
square roots			<i>Looking for Pythagoras IM Shapes of Algebra R</i>
estimating			<i>Looking for Pythagoras IM Shapes of Algebra R</i>
Real Numbers			
defined			<i>Looking for Pythagoras IM</i>
Order of Operations	<i>Prime Time I</i>	<i>Accentuate the Negative IM Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
Properties			
distributive	<i>Bits and Pieces II I Covering and Surrounding I Bits and Pieces III I</i>	<i>Accentuate the Negative IM Moving Straight Ahead R</i>	<i>Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
commutative	<i>Prime Time I</i>	<i>Accentuate the Negative IM Moving Straight Ahead R</i>	<i>Say It with Symbols R</i>
associative		<i>Accentuate the Negative I</i>	<i>Say It with Symbols IM</i>
Data Analysis and Probability			
Data Investigation			
Note: Opportunities for students to question, collect, analyze, and interpret data occur in almost every unit.			
collecting data	<i>How Likely Is It? I Data About Us IM</i>	<i>Variables and Patterns R Moving Straight Ahead R Filling and Wrapping R What Do You Expect? R Data Distributions R</i>	<i>Thinking with Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Samples and Populations R</i>

Data Analysis and Probability (cont.)			
	Grade 6	Grade 7	Grade 8
analyze data	<i>Bits and Pieces III I</i> <i>How Likely Is It? I</i> <i>Data About Us IM</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking with Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
interpret data	<i>Bits and Pieces III I</i> <i>How Likely Is It? I</i> <i>Data About Us IM</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking with Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
samples	<i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>What Do You Expect? I</i>	<i>Samples and Populations IM</i>
randomness	<i>How Likely Is It? IM</i>	<i>What Do You Expect? R</i>	<i>Samples and Populations R</i>
draw conclusions/make predictions	<i>How Likely Is It? I</i> <i>Data About Us IM</i>	<i>What Do You Expect? R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking with Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
compare data	<i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead I</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? I</i> <i>Data Distributions IM</i>	<i>Thinking with Mathematical Models R</i> <i>Samples and Populations R</i>
conduct surveys	<i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>Data Distributions I</i>	<i>Samples and Populations R</i>
evaluate methods of sampling	<i>How Likely Is It? I</i> <i>Data About Us I</i>	<i>What Do You Expect? I</i> <i>Data Distributions I</i>	<i>Samples and Populations IM</i>
Data Representation Note: Opportunities for students to create or use tables occur in almost every unit.			
line plots	<i>How Likely Is It? I</i> <i>Data About Us IM</i>	<i>Variables and Patterns R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Samples and Populations R</i>
single, double, stacked bar graphs	<i>Bits and Pieces I I</i> <i>Bits and Pieces III I</i> <i>How Likely Is It? I</i> <i>Data About Us IM</i>	<i>Comparing and Scaling R</i> <i>Data Distributions R</i>	<i>Growing, Growing, Growing R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
stem-and-leaf plots	<i>Data About Us IM</i>	<i>Data Distributions R</i>	<i>Samples and Populations R</i>

Data Analysis and Probability (cont.)

	Grade 6	Grade 7	Grade 8
coordinate graphs	<i>Covering and Surrounding I Data About Us I</i>	<i>Variables and Patterns IM Moving Straight Ahead R Filling and Wrapping R Data Distributions R</i>	<i>Thinking with Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It With Symbols R Shapes of Algebra R Samples and Populations R</i>
tables	<i>Shapes and Designs R Covering and Surrounding I Data About Us IM</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R Data Distributions R</i>	<i>Thinking with Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It With Symbols R Samples and Populations R</i>
frequency tables	<i>Data About Us IM How Likely Is It? R</i>	<i>Comparing and Scaling R Data Distributions R</i>	
circle graphs (pie charts)	<i>Bits and Pieces III IM Data About Us R</i>	<i>Data Distributions R</i>	<i>Shapes of Algebra R Samples and Populations R</i>
histograms			<i>Samples and Populations IM</i>
box-and-whisker plots (box plots)			<i>Samples and Populations IM</i>
scatter plots	<i>Data About Us I</i>	<i>Data Distributions IM</i>	<i>Thinking with Mathematical Models R Samples and Populations R</i>
analyze trends/trend lines	<i>Data About Us I</i>	<i>Variables and Patterns I Comparing and Scaling I Moving Straight Ahead I Data Distributions I</i>	<i>Thinking with Mathematical Models IM Samples and Populations R</i>
decide on appropriateness and effectiveness	<i>Bits and Pieces III I How Likely Is It? I Data About Us IM</i>	<i>Comparing and Scaling R Data Distributions R</i>	<i>Samples and Populations R</i>
Describing Data			
mode	<i>Data About Us IM</i>	<i>Data Distributions R</i>	<i>Samples and Populations R</i>
median	<i>Data About Us IM</i>	<i>Variables and Patterns R Accentuate the Negative R Data Distributions R</i>	<i>Samples and Populations R</i>
mean (average)	<i>Bits and Pieces III I Data About Us IM</i>	<i>Variables and Patterns R Accentuate the Negative R Data Distributions R</i>	<i>Thinking with Mathematical Models IM Samples and Populations R</i>
range	<i>Data About Us IM</i>	<i>Accentuate the Negative R Data Distributions R</i>	<i>Samples and Populations R</i>

Data Analysis and Probability (cont.)

	Grade 6	Grade 7	Grade 8
outliers	<i>Data About Us I</i>	<i>Data Distributions I</i>	<i>Samples and Populations IM</i>
choose the best data descriptor	<i>Data About Us IM</i>	<i>Data Distributions R</i>	<i>Samples and Populations R</i>
shape of data	<i>Data About Us I</i>	<i>Data Distributions IM</i>	<i>Samples and Populations R</i>
data distribution	<i>Data About Us I</i>	<i>Data Distributions IM</i>	<i>Samples and Populations R</i>
quartiles, interquartile range (IQR)			<i>Samples and Populations IM</i>
maximum, minimum	<i>Covering and Surrounding I</i>	<i>Data Distributions IM</i>	<i>Frogs, Fleas, and Painted Cubes R</i> <i>Samples and Populations R</i>
Probability			
predicting, computing	<i>How Likely Is It? IM</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
equally and unequally likely outcomes	<i>How Likely Is It? IM</i>	<i>What Do You Expect? R</i>	<i>Shapes of Algebra R</i>
certain, possible, impossible events	<i>How Likely Is It? IM</i>	<i>What Do You Expect? R</i>	
experimental	<i>How Likely Is It? IM</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i>	
theoretical	<i>How Likely Is It? IM</i>	<i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>What Do You Expect? R</i>	
dependent and independent events		<i>What Do You Expect? IM</i>	
expected value	<i>How Likely Is It? I</i>	<i>What Do You Expect? IM</i>	
fair and unfair games	<i>How Likely Is It? IM</i>	<i>What Do You Expect? R</i>	
lists, charts, tree diagrams, area models	<i>How Likely Is It? I</i>	<i>Variables and Patterns I</i> <i>Stretching and Shrinking I</i> <i>Comparing and Scaling I</i> <i>What Do You Expect? IM</i>	
counting techniques	<i>How Likely Is It? I</i>	<i>What Do You Expect? IM</i>	<i>Say It with Symbols R</i>
simulations/experiments	<i>How Likely Is It? IM</i>	<i>Variables and Patterns R</i> <i>Moving Straight Ahead R</i> <i>What Do You Expect? R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>

Measurement			
	Grade 6	Grade 7	Grade 8
Angles			
estimating	<i>Shapes and Designs</i> IM <i>Bits and Pieces III</i> R <i>How Likely Is It?</i> R	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R <i>Data Distributions</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
measuring	<i>Shapes and Designs</i> IM <i>Bits and Pieces III</i> R <i>How Likely Is It?</i> R	<i>Stretching and Shrinking</i> R <i>Comparing and Scaling</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
of similar polygons		<i>Stretching and Shrinking</i> IM <i>Comparing and Scaling</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
triangle, special right			<i>Looking for Pythagoras</i> IM
Perimeter			
polygons	<i>Shapes and Designs I</i> <i>Covering and Surrounding</i> IM <i>Bits and Pieces III</i> R	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R <i>Moving Straight Ahead</i> R <i>Filling and Wrapping</i> R	<i>Thinking With Mathematical Models</i> R <i>Looking for Pythagoras</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Say It with Symbols</i> R <i>Shapes of Algebra</i> R
circles (circumference)	<i>Covering and Surrounding</i> IM <i>Bits and Pieces III</i> R	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R <i>Moving Straight Ahead</i> R <i>Filling and Wrapping</i> R	<i>Growing, Growing, Growing</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Say It with Symbols</i> R <i>Shapes of Algebra</i> R
irregular polygons	<i>Covering and Surrounding</i> IM <i>Bits and Pieces III</i> R	<i>Stretching and Shrinking</i> R <i>Filling and Wrapping</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Say It with Symbols</i> R
constant perimeter, changing area	<i>Covering and Surrounding</i> IM	<i>Variables and Patterns</i> R <i>Moving Straight Ahead</i> R	<i>Thinking With Mathematical Models</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Say It with Symbols</i> R
relationships of perimeters of similar figures		<i>Stretching and Shrinking</i> IM <i>Comparing and Scaling</i> R	<i>Thinking With Mathematical Models</i> R <i>Growing, Growing, Growing</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Shapes of Algebra</i> R

Measurement (cont.)

	Grade 6	Grade 7	Grade 8
Area			
rectangles	<i>Prime Time I</i> <i>Bits and Pieces I I</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II I</i> <i>Covering and Surrounding IM</i> <i>Bits and Pieces III R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
triangles	<i>Covering and Surrounding IM</i> <i>Bits and Pieces III R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i>	<i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i>
parallelograms	<i>Covering and Surrounding IM</i> <i>Bits and Pieces III R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Filling and Wrapping R</i>	<i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i>
circles	<i>Covering and Surrounding IM</i> <i>Bits and Pieces III R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i>	<i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
irregular polygons	<i>Bits and Pieces I I</i> <i>Bits and Pieces II I</i> <i>Covering and Surrounding IM</i> <i>Bits and Pieces III R</i>	<i>Stretching and Shrinking R</i> <i>Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
trapezoids	<i>Covering and Surrounding I</i>		<i>Frogs, Fleas, and Painted Cubes IM</i> <i>Say It with Symbols R</i>
constant area, changing perimeter	<i>Covering and Surrounding IM</i>	<i>Variables and Patterns R</i>	<i>Thinking With Mathematical Models R</i> <i>Frogs, Fleas, and Painted Cubes R</i>

Measurement (cont.)			
	Grade 6	Grade 7	Grade 8
relationships of areas of similar figures		<i>Stretching and Shrinking IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R What Do You Expect? R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Kaleidoscopes, Hubcaps, and Mirrors R Shapes of Algebra R</i>
Volume			
models	<i>Data About Us R</i>	<i>Filling and Wrapping IM What Do You Expect? R</i>	<i>Frogs, Fleas, and Painted Cubes R</i>
cubes		<i>Filling and Wrapping IM What Do You Expect? R</i>	<i>Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R</i>
prisms		<i>Filling and Wrapping IM What Do You Expect? R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R</i>
cylinders		<i>Filling and Wrapping IM</i>	<i>Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Kaleidoscopes, Hubcaps, and Mirrors R Say It with Symbols R Shapes of Algebra R</i>
cones		<i>Filling and Wrapping IM</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Say It with Symbols R</i>
pyramids		<i>Filling and Wrapping IM</i>	<i>Looking for Pythagoras R Say It with Symbols R</i>
spheres		<i>Filling and Wrapping IM</i>	<i>Say It with Symbols R</i>
irregular figures		<i>Filling and Wrapping IM</i>	<i>Say It with Symbols R</i>
similar figures and scale factors		<i>Filling and Wrapping IM</i>	

Measurement (cont.)

	Grade 6	Grade 7	Grade 8
effects when the dimensions of a solid are changed proportionally		<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R</i>
Surface Area			
flat patterns (nets) for solid figures	<i>Covering and Surrounding R How Likely Is It? R</i>	<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R Kaleidoscopes, Hubcaps, and Mirrors R Say It with Symbols R Shapes of Algebra R</i>
models		<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Looking for Pythagoras R</i>
cubes		<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
prisms		<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R</i>
cylinders		<i>Filling and Wrapping</i> IM	<i>Thinking With Mathematical Models R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R</i>
pyramids	<i>How Likely Is It? I</i>	<i>Filling and Wrapping</i> I	<i>Looking for Pythagoras I</i>
irregular figures			<i>Say It with Symbols I</i>
formulas		<i>Filling and Wrapping</i> IM	
Finding Missing Lengths			
similar figures using ratios or scale factor		<i>Stretching and Shrinking IM Comparing and Scaling R Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Kaleidoscopes, Hubcaps, and Mirrors R</i>

Measurement (cont.)			
	Grade 6	Grade 7	Grade 8
on a coordinate grid			<i>Looking for Pythagoras IM</i> <i>Shapes of Algebra R</i>
using the Pythagorean Theorem			<i>Looking for Pythagoras IM</i> <i>Growing, Growing, Growing R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
Indirect			
similar triangles		<i>Stretching and Shrinking IM</i> <i>Comparing and Scaling R</i>	<i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i>
solving problems with		<i>Stretching and Shrinking IM</i> <i>Comparing and Scaling R</i>	<i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i>
Units of Measure			
converting within the same measurement system	<i>Shapes and Designs R</i>	<i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i>	
converting among customary and metric		<i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Data About Us R</i>	
Geometry			
Line			
parallel lines	<i>Shapes and Designs IM</i>	<i>Stretching and Shrinking R</i> <i>Moving Straight Ahead R</i>	<i>Looking for Pythagoras R</i> <i>Shapes of Algebra R</i>
perpendicular lines	<i>Shapes and Designs IM</i>	<i>Moving Straight Ahead R</i>	<i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Shapes of Algebra R</i>
transversals	<i>Shapes and Designs IM</i>	<i>Stretching and Shrinking R</i>	<i>Kaleidoscopes, Hubcaps, and Mirrors R</i>
midpoints	<i>Shapes and Designs IM</i>	<i>Stretching and Shrinking R</i>	<i>Looking for Pythagoras R</i> <i>Shapes of Algebra R</i>
Angles			
classifying	<i>Shapes and Designs IM</i>		
congruent	<i>Shapes and Designs IM</i>	<i>Stretching and Shrinking R</i>	<i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i>

Geometry (cont.)

	Grade 6	Grade 7	Grade 8
complementary and supplementary		<i>Stretching and Shrinking</i> IM <i>Filling and Wrapping</i> R	
of a polygon	<i>Shapes and Designs</i> IM	<i>Variables and Patterns</i> R <i>Stretching and Shrinking</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
n-gon angle sum	<i>Shapes and Designs</i> IM <i>Bits and Pieces III</i> R	<i>Variables and Patterns</i> R <i>Moving Straight Ahead</i> R	<i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Shapes of Algebra</i> R
on a circular grid	<i>Shapes and Designs</i> IM		
Polygons			
properties of	<i>Shapes and Designs</i> IM		<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Shapes of Algebra</i> R
regular	<i>Shapes and Designs</i> IM	<i>Variables and Patterns</i> R <i>Moving Straight Ahead</i> R	
tilings/tessellations	<i>Shapes and Designs</i> IM	<i>Stretching and Shrinking</i> R	<i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
diagonals	<i>Shapes and Designs</i> IM	<i>Variables and Patterns</i> R <i>Moving Straight Ahead</i> R	<i>Looking for Pythagoras</i> R <i>Growing, Growing, Growing</i> R <i>Frogs, Fleas, and Painted Cubes</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
triangles, classifying	<i>Shapes and Designs</i> IM	<i>Stretching and Shrinking</i> R <i>Moving Straight Ahead</i> R <i>Filling and Wrapping</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R
quadrilaterals, classifying	<i>Shapes and Designs</i> IM	<i>Stretching and Shrinking</i> R <i>Moving Straight Ahead</i> R	<i>Looking for Pythagoras</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Shapes of Algebra</i> R
similar		<i>Stretching and Shrinking</i> IM <i>Moving Straight Ahead</i> R <i>Filling and Wrapping</i> R	<i>Looking for Pythagoras</i> R <i>Growing, Growing, Growing</i> R <i>Kaleidoscopes, Hubcaps, and Mirrors</i> R <i>Shapes of Algebra</i> R
congruent	<i>Covering and Surrounding</i> I <i>How Likely Is It?</i> I	<i>Stretching and Shrinking</i> I	<i>Looking for Pythagoras</i> I <i>Kaleidoscopes, Hubcaps, and Mirrors</i> IM

Geometry (cont.)

	Grade 6	Grade 7	Grade 8
enlarging and shrinking (dilations)		<i>Stretching and Shrinking IM Moving Straight Ahead R</i>	<i>Looking for Pythagoras R Growing, Growing, Growing R Kaleidoscopes, Hubcaps, and Mirrors R Shapes of Algebra R</i>
drawing on coordinate grid		<i>Stretching and Shrinking IM Moving Straight Ahead R</i>	<i>Looking for Pythagoras R Kaleidoscopes, Hubcaps, and Mirrors R Shapes of Algebra R</i>
Pythagorean Theorem			<i>Looking for Pythagoras IM Say It with Symbols R</i>
Circles			
Relationship between radius/diameter/circumference	<i>Covering and Surrounding IM</i>	<i>Filling and Wrapping R</i>	<i>Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R Kaleidoscopes, Hubcaps, and Mirrors R Shapes of Algebra R</i>
Three-Dimensional Figures			
cubes		<i>Filling and Wrapping IM</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R</i>
prisms		<i>Filling and Wrapping IM</i>	<i>Looking for Pythagoras R</i>
cylinders/spheres/cones		<i>Filling and Wrapping IM</i>	<i>Looking for Pythagoras R Kaleidoscopes, Hubcaps, and Mirrors R</i>
pyramids		<i>Filling and Wrapping IM</i>	<i>Looking for Pythagoras R</i>
base plans/top, side, and front views		<i>Filling and Wrapping R</i>	<i>Frogs, Fleas, and Painted Cubes R</i>
spatial visualization	<i>Covering and Surrounding I How Likely Is It? I</i>	<i>Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Frogs, Fleas, and Painted Cubes R Kaleidoscopes, Hubcaps, and Mirrors R Shapes of Algebra R</i>

Geometry (cont.)			
	Grade 6	Grade 7	Grade 8
Transformations			
reflections	<i>Shapes and Designs I</i>	<i>Accentuate the Negative I</i>	<i>Frogs, Fleas, and Painted Cubes I</i> <i>Kaleidoscopes, Hubcaps, and Mirrors IM</i> <i>Shapes of Algebra R</i>
rotations	<i>Shapes and Designs I</i>		<i>Kaleidoscopes, Hubcaps, and Mirrors IM</i>
translations		<i>Stretching and Shrinking I</i> <i>Accentuate the Negative I</i>	<i>Frogs, Fleas, and Painted Cubes I</i> <i>Kaleidoscopes, Hubcaps, and Mirrors IM</i> <i>Shapes of Algebra R</i>
combinations of transformations			<i>Kaleidoscopes, Hubcaps, and Mirrors IM</i>
symmetry	<i>Shapes and Designs IM</i>		<i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Shapes of Algebra R</i>
constructing symmetric figures			<i>Kaleidoscopes, Hubcaps, and Mirrors IM</i> <i>Shapes of Algebra R</i>
dilations		<i>Stretching and Shrinking IM</i> <i>Accentuate the Negative R</i>	<i>Kaleidoscopes, Hubcaps, and Mirrors IM</i> <i>Shapes of Algebra R</i>
algebraic rules/properties for		<i>Stretching and Shrinking I</i>	<i>Kaleidoscopes, Hubcaps, and Mirrors IM</i>
on a coordinate plane	<i>Shapes and Designs I</i>	<i>Stretching and Shrinking I</i> <i>Accentuate the Negative I</i>	<i>Looking for Pythagoras I</i> <i>Kaleidoscopes, Hubcaps, and Mirrors IM</i> <i>Shapes of Algebra R</i>
Algebra			
Patterns			
look for and describe	<i>Covering and Surrounding I</i> <i>Data About Us I</i>	<i>Variables and Patterns IM</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Samples and Populations R</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
numerical	<i>Covering and Surrounding I Data About Us I</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R Data Distributions R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Samples and Populations R</i>
geometric	<i>Covering and Surrounding IM</i>	<i>Variables and Patterns R Accentuate the Negative R Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
rates of change		<i>Variables and Patterns I Comparing and Scaling IM Accentuate the Negative R Moving Straight Ahead R Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
rules	<i>Shapes and Designs I Covering and Surrounding I</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Samples and Populations R</i>
analyzing and making predictions from	<i>Covering and Surrounding I</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R Data Distributions R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
functions	<i>Covering and Surrounding I</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Samples and Populations R</i>
Variables/Expressions			
dependent, independent		<i>Variables and Patterns IM Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
coefficients		<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead IM</i>	
like, constant, linear terms		<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
evaluating		<i>Variables and Patterns I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
equivalent		<i>Variables and Patterns I</i> <i>Moving Straight Ahead I</i>	<i>Growing, Growing, Growing I</i> <i>Frogs, Fleas, and Painted Cubes I</i> <i>Say It with Symbols IM</i> <i>Shapes of Algebra R</i>
factored form/ expanded form		<i>Accentuate the Negative IM</i> <i>Moving Straight Ahead R</i>	<i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i>
Relationships			
continuous/ discrete		<i>Variables and Patterns IM</i> <i>Accentuate the Negative R</i>	<i>Thinking With Mathematical Models R</i>
linear	<i>Data About Us I</i>	<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Accentuate the Negative I</i> <i>Moving Straight Ahead IM</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
nonlinear	<i>Covering and Surrounding I</i> <i>Data About Us I</i>	<i>Variables and Patterns I</i> <i>Moving Straight Ahead I</i> <i>Filling and Wrapping I</i> <i>Data Distributions I</i>	<i>Thinking With Mathematical Models IM</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
inverse		<i>Variables and Patterns I Moving Straight Ahead I</i>	<i>Thinking With Mathematical Models IM Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R</i>
exponential growth/ exponential decay			<i>Growing, Growing, Growing IM Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R</i>
quadratic	<i>Covering and Surrounding I</i>	<i>Filling and Wrapping I</i>	<i>Frogs, Fleas, and Painted Cubes IM Say It with Symbols R Shapes of Algebra R</i>
slope		<i>Variables and Patterns I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Looking for Pythagoras R Growing, Growing, Growing R Shapes of Algebra R</i>
slopes of perpendicular lines/parallel lines		<i>Moving Straight Ahead IM</i>	<i>Looking for Pythagoras R Shapes of Algebra R</i>
Equations, Linear			
tables for		<i>Variables and Patterns I Comparing and Scaling I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Shapes of Algebra R</i>
graphs for		<i>Variables and Patterns I Comparing and Scaling I Accentuate the Negative I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R Samples and Populations R</i>
fitting to a graph		<i>Moving Straight Ahead IM Data Distributions R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R Samples and Populations R</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
Slope-intercept form $y = mx + b$		<i>Variables and Patterns I</i> <i>Moving Straight Ahead IM</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
Standard form $ax + by = c$			<i>Shapes of Algebra IM</i>
writing		<i>Variables and Patterns IM</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
solving with tables		<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
solving by graphing		<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
solving symbolically		<i>Variables and Patterns I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
solving with graphing calculator		<i>Variables and Patterns I</i> <i>Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
solving systems of		<i>Variables and Patterns I Moving Straight Ahead I</i>	<i>Thinking With Mathematical Models I Frogs, Fleas, and Painted Cubes I Say It with Symbols I Shapes of Algebra IM</i>
formulate given a problem situation (and vice versa)		<i>Variables and Patterns I Comparing and Scaling I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R Samples and Populations R</i>
Equations, Quadratic			
writing			<i>Frogs, Fleas, and Painted Cubes IM Say It with Symbols R</i>
graphs for	<i>Covering and Surrounding I</i>	<i>Variables and Patterns I Moving Straight Ahead I</i>	<i>Frogs, Fleas, and Painted Cubes IM Say It with Symbols R Shapes of Algebra R</i>
solving			<i>Frogs, Fleas, and Painted Cubes I Say It with Symbols IM Shapes of Algebra R</i>
finding roots			<i>Frogs, Fleas, and Painted Cubes I Say It with Symbols IM Shapes of Algebra R</i>
inequalities			<i>Shapes of Algebra I</i>
Equations, Nonlinear			
models		<i>Variables and Patterns I Moving Straight Ahead I</i>	<i>Thinking With Mathematical Models IM Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R</i>
cubic			<i>Thinking With Mathematical Models I Frogs, Fleas, and Painted Cubes I Say It with Symbols I</i>

Algebra (cont.)			
	Grade 6	Grade 7	Grade 8
exponential		<i>Variables and Patterns I</i>	<i>Thinking With Mathematical Models I</i> <i>Growing, Growing, Growing IM</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
inverse		<i>Variables and Patterns I</i> <i>Moving Straight Ahead I</i>	<i>Thinking With Mathematical Models IM</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
of circles			<i>Shapes of Algebra IM</i>
Graphing			
explore shapes of graphs	<i>Data About Us I</i>	<i>Variables and Patterns IM</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
ordered pairs	<i>Data About Us I</i>	<i>Variables and Patterns IM</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
polar coordinates	<i>Shapes and Designs IM</i>		
equations		<i>Variables and Patterns I</i> <i>Comparing and Scaling I</i> <i>Moving Straight Ahead IM</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Samples and Populations R</i>
inequalities		<i>Variables and Patterns I</i> <i>Moving Straight Ahead I</i>	<i>Thinking With Mathematical Models I</i> <i>Say It with Symbols I</i> <i>Shapes of Algebra IM</i>
systems of linear inequalities			<i>Shapes of Algebra IM</i>

Algebra (cont.)

	Grade 6	Grade 7	Grade 8
using a table	<i>Covering and Surrounding I Data About Us I</i>	<i>Variables and Patterns IM Comparing and Scaling R Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R</i>
with a graphing calculator		<i>Variables and Patterns IM Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R</i>
slope		<i>Variables and Patterns I Comparing and Scaling I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Say It with Symbols R Shapes of Algebra R Samples and Populations R</i>
x-intercept		<i>Variables and Patterns I Moving Straight Ahead IM</i>	<i>Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R Samples and Populations R</i>
y-intercept		<i>Variables and Patterns I Moving Straight Ahead IM</i>	<i>Thinking With Mathematical Models R Growing, Growing, Growing R Frogs, Fleas, and Painted Cubes R Say It with Symbols R Shapes of Algebra R</i>
maximum and minimum	<i>Covering and Surrounding I</i>	<i>Filling and Wrapping I</i>	<i>Frogs, Fleas, and Painted Cubes IM Say It with Symbols R</i>
systems of equations		<i>Variables and Patterns IM Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R Frogs, Fleas, and Painted Cubes R Shapes of Algebra R</i>

Problem Solving Skills

	Grade 6	Grade 7	Grade 8
Problem Solving Strategies As a problem solving curriculum, every unit helps students develop a variety of strategies for solving problems such as; building models, making lists and tables, drawing diagrams, and solving simpler problems.			
drawing a diagram	<i>Bits and Pieces I R</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i>	<i>Stretching and Shrinking R</i> <i>Accentuate the Negative R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i>
looking for a pattern	<i>Bits and Pieces I R</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II R</i> <i>Covering and Surrounding R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i>
making a graph	<i>Covering and Surrounding R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
making a table	<i>Shapes and Designs R</i> <i>Covering and Surrounding R</i> <i>Bits and Pieces III R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Samples and Populations R</i>
simulating a problem	<i>Prime Time IM</i> <i>Covering and Surrounding R</i> <i>How Likely Is It? R</i>	<i>Variables and Patterns R</i> <i>Moving Straight Ahead R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Samples and Populations R</i>
try, check, revise	<i>Prime Time IM</i> <i>Bits and Pieces I R</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i>

Problem Solving Skills (cont.)

	Grade 6	Grade 7	Grade 8
write an equation	<i>Shapes and Designs R</i> <i>Covering and Surrounding R</i>	<i>Variables and Patterns R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
Reasonableness			
justify answers	<i>Prime Time IM</i> <i>Bits and Pieces I R</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Samples and Populations R</i>
make and test conjectures	<i>Prime Time IM</i> <i>Bits and Pieces I R</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
reason from graphs	<i>Covering and Surrounding R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
recognize patterns	<i>Bits and Pieces I R</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i>
validate conclusions using mathematical properties	<i>Prime Time IM</i> <i>Bits and Pieces I R</i> <i>Shapes and Designs R</i> <i>Bits and Pieces II R</i> <i>Covering and Surrounding R</i> <i>Bits and Pieces III R</i> <i>How Likely Is It? R</i> <i>Data About Us R</i>	<i>Variables and Patterns R</i> <i>Stretching and Shrinking R</i> <i>Comparing and Scaling R</i> <i>Accentuate the Negative R</i> <i>Moving Straight Ahead R</i> <i>Filling and Wrapping R</i> <i>What Do You Expect? R</i> <i>Data Distributions R</i>	<i>Thinking With Mathematical Models R</i> <i>Looking for Pythagoras R</i> <i>Growing, Growing, Growing R</i> <i>Frogs, Fleas, and Painted Cubes R</i> <i>Kaleidoscopes, Hubcaps, and Mirrors R</i> <i>Say It with Symbols R</i> <i>Shapes of Algebra R</i> <i>Samples and Populations R</i>
Communication Student explanations are requested throughout in Problems, in the ACE, and in teacher questioning from the teacher's guides.			