

SUMMER SUCCESS: MATH © 2008

correlated to

Colorado Standards

CSAP Mathematics Assessment

Framework

Grades 5-8



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YOUR COLORADO GREAT SOURCE REPRESENTATIVE

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Summer Success: Math © 2008
correlated to
Colorado Standards
CSAP Mathematics Assessment Framework
Grade 5

STANDARD 1

Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Demonstrate meanings for integers, rational numbers, percents, exponents, square roots, and pi using physical materials and technology in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 5
a Locate commonly used positive rational numbers including terminating decimals through hundredths, fractions (halves, thirds, fourths, eighths, and tenths), mixed numbers, and percents on a number line.	Teacher's Edition: 12a, 13, 14a, 20a, 23, 28c, 34a, 44a, 45, 65, 66a, 67, 95-96 Student Book: 13, 23, 45, 65, 67, 95, 96
b Using concrete materials, demonstrate the equivalence of commonly-used fractions, terminating decimals, and percents (for example, $7/10 = 0.7 = 70\%$).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 9, 10, 12a, 14a, 17, 18, 20a, 22a, 28c, 34a, 44a, 56a, 58a 64a 72c, 73, 74, 78a, 83, 84, 86a, 87, 88a, 107, 108, 125, 126 Student Book: 17, 73, 74, 83, 84, 107, 108, 125, 126
c Demonstrate the meaning of square numbers using pictorial or concrete materials.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6e, 136 Student Book: 136

Benchmark 2

Read, write and order integers, rational numbers, and common irrational numbers, such as $\sqrt{2}$, $\sqrt{5}$, and π .

Assessment Objective	Summer Success: Math Grade 5
a Read, write, and order positive rational numbers, including commonly-used fractions and terminating decimals through hundredths.	Teacher's Edition: 34a, 35, 36, 37, 38, 66a, 67, 68, 83, 84, 113 Student Book: 35, 36, 37, 38, 67, 68, 83, 113
b Compare commonly-used proper fractions and terminating decimals.	Teacher's Edition: 28c, 42a, 79-81, 113 Student Book: 79, 80, 81, 82

Benchmark 3

Apply number theory concepts (for example, primes, factors, multiples) to represent numbers in various ways.

Assessment Objective	Summer Success: Math Grade 5
a Identify factors, multiples, and prime/composite numbers.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 47, 61, 62, 64a, 100a, 102a, 119, 120, 130a, 131, 132a, 133, 134, 136 Student Book: 61, 62, 119, 131, 133, 134, 136
b Recognize equivalent representations for the same number and generate them by decomposing and composing numbers (for example, 36 can be represented as $30+6$, $20+16$, 9×4 , $40-4$, three dozen and/or the square of 6).	Teacher's Edition: 132a, 133 Student Book: 133
c Describe numbers by their characteristics (for example, even, odd, prime, square).	Teacher's Edition: 119, 120, 122a, 123, 124, 124a, 125, 126, 130a, 131, 132, 132a, 136 Student Book: 119, 123, 124, 125, 126, 131, 132, 136

Benchmark 4

Use the relationships among fractions, decimals, and percents, including the concepts of ratio and proportion, in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 5
a Demonstrate the equivalent relationships among commonly used fractions, decimals, and percents using pictorial or concrete materials.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 9, 10, 12a, 14a, 17, 18, 20a, 22a, 28c, 34a, 44a, 56a, 58a 64a 72c, 73, 74, 78a, 83, 84, 86a, 87, 88a, 107, 108, 125, 126 Student Book: 9, 17, 73, 74, 83, 87, 88, 107, 125, 126

Benchmark 5

Develop, test, and explain conjectures about properties of integers and rational numbers.

Assessment Objective	Summer Success: Math Grade 5
b Use number properties (commutative, associative, identity) to evaluate numeric expressions and solve equations.	Teacher's Edition: 66a, 130a, 131, 132, 132a Student Book: 131, 132

Benchmark 6

Use number sense to estimate and justify the reasonableness of solutions to problems involving integers, rational numbers, and common irrational numbers such as $\sqrt{2}$, $\sqrt{5}$ and pi.

Assessment Objective	Summer Success: Math Grade 5
a Use number sense to estimate sums and differences of fractions and decimals using benchmarks (for example, $5/6 + 7/8$ must be equal to an amount less than 2, since each fraction is less than 1).	Teacher's Edition: 12a, 14a, 20a, 21, 22, 36a, 42a, 50c, 56a, 58a Student Book: 21, 22
b Use appropriate techniques to estimate, determine, and then justify the reasonableness of solutions to problems involving whole numbers.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 25, 26, 47, 48, 69, 70, 91, 92, 113, 114, 135, 136 Student Book: 25, 26, 47, 48, 69, 70, 91, 92, 113, 114, 135, 136

S T A N D A R D 2

Students use algebraic methods to explore model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Represent, describe, and analyze geometric and numeric patterns (whole numbers).	Teacher's Edition: 6d, 12a, 22a, 28c, 36a, 42a, 43, 44, 51, 52, 56 Student Book: 43, 44, 51, 52
b Recognize that a variable is used to represent and unknown quantity.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 28d, 36b, 42b, 44b, 100a, 101, 110a Student Book: 101
c Identify such properties as commutativity, associativity, and distributivity and use them to compute with whole numbers.	Teacher's Edition: 66a, 130a, 131, 132, 132a Student Book: 131, 132

B e n c h m a r k 2

Describe patterns using variables, expressions, equations, and inequalities in problem solving situations.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Solve problems by representing and analyzing patterns using words, tables, and graphs.	Teacher's Edition: 67, 68, 79, 80, 111, 112 Student Book: 67, 68, 79, 80, 111, 112

B e n c h m a r k 3

Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time).

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Describe how a change in one quantity results in a change in another quantity.	Teacher's Edition: 36a, 42a, 43, 44, 52 Student Book: 43, 52

Benchmark 4

Distinguish between linear and nonlinear functions through informal investigations.

Assessment Objectives	Summer Success: Math Grade 5
a Match a description of a situation with its continuous graph.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 99, 100 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 99

Benchmark 5

Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, and graphical) and a variety of tools (physical materials, calculators, and computers).

Assessment Objectives	Summer Success: Math Grade 5
a Use tables, charts, concrete objects, or pictures to solve problems involving linear relationships and whole numbers.	Teacher's Edition: 22, 36a, 42a, 43, 44, 51, 52 Student Book: 22, 43, 44, 51, 52

STANDARD 3

Students use data collection and analysis statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots, box plots, stem-and-leaf plots) and appropriate technology.

Assessment Objectives	Summer Success: Math Grade 5
a Differentiate between categorical and numerical data.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122
b Organize, construct, and interpret displays of data including tables, charts, pictographs, line plots, bar graphs, and line graphs.	Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122

Assessment Objectives		<i>Summer Success: Math Grade 5</i>
c	Read, interpret, and draw conclusions from various displays of data.	Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122
d	From a given scenario, choose the correct graph from possible graph representations.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122

B e n c h m a r k 2

Display and use measures of central tendency, such as mean, median and mode and measures of variability, such as range and quartiles.

Assessment Objectives		<i>Summer Success: Math Grade 5</i>
a	Distinguish between the median and mode of a data set.	Teacher's Edition: 33, 34, 77, 99, 100 Student Book: 33, 34, 77, 99, 100
b	Determine the range of a set of data.	Teacher's Edition: 33, 34, 55, 60, 77, 99, 100 Student Book: 33, 34, 55, 60, 77, 99, 100

B e n c h m a r k 3

Evaluate arguments that are based on statistical claims.

Assessment Objectives		<i>Summer Success: Math Grade 5</i>
a	Analyze data and draw conclusions based on data displays such as tables, charts, line graphs, bar graphs, pictographs, and line plots.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122

Benchmark 4

Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis.

Assessment Objectives	Summer Success: Math Grade 5
a Describe how data collection methods affect the nature of the data set.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122
b Make convincing arguments based on data analysis.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 121, 122

Benchmark 5

Determine probabilities through experiments or simulations.

Assessment Objectives	Summer Success: Math Grade 5
a Describe events such as likely or unlikely and explain the degree of likelihood using words, such as certain, equally likely, and impossible.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 121, 122 Student Book: 121, 122
b Use zero to represent the probability of an impossible event and one to represent the probability of a certain event.	Teacher's Edition: 121, 122 Student Book: 121, 122
c Use common fractions to represent the probability of events that are neither certain nor impossible.	Teacher's Edition: 121, 122 Student Book: 121, 122

Benchmark 6

Make predictions and compare results using both experimental and theoretical probability drawn from real-world problems.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
b Make predictions based on data obtained from simple probability experiments.	Teacher's Edition: 121, 122 Student Book: 121, 122

Benchmark 7

Use counting strategies to determine all the possible outcomes from an experiment (for example, the number of ways students can line up to have their picture taken).

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Solve problems using strategies for finding all possible combinations and/or arrangements.	Teacher's Edition: 121, 122 Student Book: 121, 122

STANDARD 4

Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Construct two-and three-dimensional models using a variety of materials and tools.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Represent a three-dimensional shape in two dimensions (for example, recognize a three dimensional figure from its net).	Teacher's Edition: 64b, 65, 66, 75, 76, 78b Student Book: 65, 75, 76

Benchmark 2

Describe, analyze and reason informally about the properties (for example, parallelism, perpendicularity, congruence) of two-and three-dimensional figures.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
a Identify, compare, and analyze the attributes of two-and three-dimensional shapes and develop vocabulary to describe the attributes (for example, acute, obtuse, right angle, parallel lines, perpendicular lines, intersecting lines, and line segments).	Teacher's Edition: 48, 50d, 56b, 58b, 94d, 108b, 129, 130 Student Book: 48

Benchmark 3

Apply the concept of ratio, proportion and similarity in problem-solving situations.

Assessment Objectives	Summer Success: Math Grade 5
No objectives assessed at this level.	

Benchmark 4

Solve problems using coordinate geometry.

Assessment Objectives	Summer Success: Math Grade 5
a Given a coordinate graph, read coordinate pairs in quadrant one.	Teacher's Edition: 44b, 45, 74, 86b, 88b Student Book: 45, 74
b Choose the coordinate graph, which represents a given data set.	Teacher's Edition: 55, 56 Student Book: 55, 56

Benchmark 5

Solving problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions.

Assessment Objectives	Summer Success: Math Grade 5
a Solve problems involving the perimeter of polygons.	Teacher's Edition: 6e, 20b, 21, 78b, 116d, 132b, 133 Student Book: 21, 133
b Solve problems involving the area of rectangles and squares.	Teacher's Edition: 50d, 51, 59, 60, 78b, 95 Student Book: 51, 59

Benchmark 6

Transforming geometric figures using reflections, translations, and rotations to explore congruence.

Assessment Objectives	Summer Success: Math Grade 5
a Predict and describe the results of flipping, sliding, or turning a two-dimensional shape.	Teacher's Edition: 72d, 78b, 80b, 81, 82, 116d, 117, 118, 124, 134 Student Book: 81, 82, 117, 124, 134

Assessment Objectives	Summer Success: Math Grade 5
b Show lines of symmetry for geometrical shapes.	Teacher's Edition: 12b, 22b, 129, 130 Student Book: 129

S T A N D A R D 5

Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Estimate, use and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison.

Assessment Objectives	Summer Success: Math Grade 5
a Determine the appropriate unit of measure (metric and US customary) when estimating distance, capacity, and weight.	Teacher's Edition: 28d, 37, 66b Student Book: 37
b Estimate the length of common objects.	Teacher's Edition: 28d
c Estimate the perimeter of polygons.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6e, 20b, 116d, 132b, 133, 134 Student Book: 133
d Estimate the measures of angles (for example, 90° , less than 90° , more than 90°).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 42b, 100b, 108b, 110b, 124b
e Describe angles as acute, obtuse and right.	Teacher's Edition: 42b, 100b, 108b, 110b, 124b

B e n c h m a r k 2

Estimate, make, and use direct and indirect measurements to describe and make comparisons.

Assessment Objectives	Summer Success: Math Grade 5
<i>No objectives assessed at this level.</i>	

Benchmark 3

Read and interpret various scales including those based on number lines, graphs, and maps.

Assessment Objectives	Summer Success: Math Grade 5
a Read and interpret scales on number lines, graphs, and maps.	Teacher's Edition: 13, 14a, 20a, 22a, 23, 28c, 43, 44a, 45, 56, 65, 78, 96, 100 Student Book: 13, 23, 43, 45, 56, 65, 78, 96, 100
b Select the appropriate scale for a given problem (for example, using the appropriate scale when setting up a graph).	Teacher's Edition: 11, 12, 33, 34, 55, 56, 77, 78, 99, 100 Student Book: 11, 12, 33, 34, 55, 56, 77, 78, 99, 100

Benchmark 4

Develop and use formulas and procedures to solve problems involving measurement.

Assessment Objectives	Summer Success: Math Grade 5
a Find the perimeter and area of rectangles and squares, using appropriate units.	Teacher's Edition: 6e, 20b, 22b, 50d, 51, 59, 60, 78b, 95, 116d, 132b, 133, 134 Student Book: 33, 51, 59, 95

Benchmark 5

Describe how a change in an object's linear dimensions affects its perimeter, area, and volume.

Assessment Objectives	Summer Success: Math Grade 5
a Demonstrate how changing one of the dimensions of a rectangle affects its perimeter (using concrete materials or graph paper).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 50d, 95, 132b, 133 Student Book: 133
b Demonstrate how changing in one of the dimensions of a rectangle affects its area (using concrete materials or graph paper).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 50d, 51, 132b, 133 Student Book: 51, 133

Benchmark 6

Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.

Assessment Objectives	Summer Success: Math Grade 5
a Select and use the appropriate unit and tool to measure to the degree of accuracy required in a particular problem.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 14b, 36b, 42b, 63, 64, 66b, 80b, 88b, 107, 108 Student Book: 63a, 107
b Measure the sides of rectangles, squares, and triangles to the nearest $\frac{1}{2}$ inch and nearest centimeter.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 28d

STANDARD 6

Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers, in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Use models to explain how ratios, proportions, and percents can be used to solve real-world problems.

Assessment Objectives	Summer Success: Math Grade 5
a Use concrete materials or pictures, determine commonly used percentages (25%, 50%) in problem-solving situations.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 72c, 73, 74, 86a, 87, 88, 88a Student Book: 73, 87

Benchmark 2

Construct, use and explain procedures to compute and estimate with whole numbers, fractions, decimals, and integers.

Assessment Objectives	Summer Success: Math Grade 5
a Demonstrate the conceptual meaning of the four basic arithmetic operations (addition, subtraction, multiplication, and division).	Teacher's Edition: 6e, 19, 20, 91, 92, 116c, 119, 120 Student Book: 19, 19a, 91, 92

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
<p>b Use and explain strategies to add, subtract, multiply and divide whole numbers in problem-solving situations.</p>	<p>Teacher’s Edition: 14, 22, 19, 20, 53, 54, 61, 62, 102, 104, 105, 106, 130a, 131, 132</p> <p>Student Book: 14, 22, 53, 54, 61, 62, 102, 104, 105, 106</p>
<p>c Demonstrate proficiency of addition, subtraction, multiplication and division of whole numbers in problem-solving situations.</p>	<p>The opportunity to address this objective is available on the following pages: Teacher’s Edition: 19, 20, 53, 54, 61, 101, 102, 104, 105, 106, 119, 120</p> <p>Student Book: 19, 19a, 53, 61, 101, 102, 104, 105, 106, 119</p>
<p>d Use and explain strategies to add and subtract commonly-used fractions with like denominators in problem-solving situations.</p>	<p>Teacher’s Edition: 50c, 51, 52, 56a, 58a, 59, 67, 85, 86, 88a, 117</p> <p>Student Book: 51, 59, 67, 85, 85a, 117</p>
<p>e Use and explain strategies to add and subtract commonly-used decimals in problem-solving situations.</p>	<p>Teacher’s Edition: 12a, 13, 14, 14a, 20a, 21, 22, 31, 32, 34a, 35, 36, 36a, 41, 42a, 43</p> <p>Student Book: 13, 14, 21, 31, 32, 35, 37, 41, 41a, 43</p>

B e n c h m a r k 3

Develop, apply and explain a variety of different estimation strategies in problem-solving situations, and explain why an estimate may be acceptable in place of an exact answer.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
<p>a Determine from real-world problems whether an estimated or exact answer is acceptable.</p>	<p>The opportunity to address this objective is available on the following pages: Teacher’s Edition: 8, 14, 16, 22, 24, 30, 36, 44, 46, 52, 58, 60, 66, 68, 74, 80, 88, 90, 102, 104, 110, 112, 118, 126, 132, 134</p> <p>Student Book: 8, 14, 16, 22, 24, 30, 36, 44, 46, 52, 58, 60, 66, 68, 74, 80, 88, 90, 102, 104, 110, 112, 118, 126, 132, 134</p>
<p>b Use and explain a variety of estimation techniques to solve problems.</p>	<p>Teacher’s Edition: 28d, 53, 54, 66b, 80b, 105, 106, 127, 128</p> <p>Student Book: 53, 54</p>

B e n c h m a r k 4

Select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem-solving situations and determining whether the results are reasonable.

Assessment Objectives	<i>Summer Success: Math Grade 5</i>
<p>a Determine whether information given is a problem-solving situation is sufficient, in sufficient, or extraneous.</p>	<p>Teacher’s Edition: 43, 44, 117, 118</p> <p>The opportunity to address this objective is also available on the following pages: Teacher’s Edition: 8, 14, 16, 22, 24, 30, 36, 44, 46, 52, 58, 60, 66, 68, 74, 80, 88, 90, 102, 104, 110, 112, 118, 126, 132, 134</p> <p>Student Book: 43, 44, 117, 118</p>
<p>b Given a real-world problem, use an appropriate method (mental arithmetic, estimation, paper-and-pencil, calculator) to correctly solve the problem.</p>	<p>Teacher’s Edition: 8, 14, 16, 22, 24, 30, 36, 44, 46, 52, 58, 60, 66, 68, 74, 80, 88, 90, 102, 104, 110, 112, 118, 126, 132, 134</p> <p>Student Book: 8, 14, 16, 22, 24, 30, 36, 44, 46, 52, 58, 60, 66, 68, 74, 80, 88, 90, 102, 104, 110, 112, 118, 126, 132, 134</p>
<p>d In a problem-solving situation, determine whether the results are reasonable and justify those results with correct computations.</p>	<p>Teacher’s Edition: 57, 66, 74, 88, 89, 90, 95, 96, 109, 110, 123, 124</p> <p>Student Book: 57, 66, 74, 88, 90, 95, 96, 109, 110, 123, 124</p> <p>The opportunity to address this objective is also available throughout the text.</p>

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CSAP Mathematics Assessment Framework
Grade 6**

STANDARD 1

Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Demonstrate meanings for integers, rational numbers, percents, exponents, square roots, and pi using physical materials and technology in problem-solving situations.

Assessment Objective	<i>Summer Success: Math Grade 6</i>
a Locate commonly used positive rational numbers including terminating decimals through hundredths, fractions (halves, thirds, fourths, eighths, and tenths), mixed numbers, and percents on a number line.	Teacher's Edition: 44b, 48b, 54c, 60a, 64a, 68b, 72a
b Use physical materials or pictures to demonstrate the meaning and equivalence of fractions, decimals, and/or percents (for example, write the fractions, decimal, and percent value for the shaded portion of partially shaded circle).	Teacher's Edition: 30c, 31, 32, 33, 34, 36a, 37, 40a, 41, 42, 43, 43a, 44b, 45, 46, 48, 48a, 54c, 55, 56, 64a, 67, 67a, 68b, 69, 70, 73, 74 Student Book: 31, 33, 34, 37, 41, 43, 46, 55, 56, 69, 73, 74

Benchmark 2

Read, write and order integers, rational numbers, and common irrational numbers, such as $\sqrt{2}$, $\sqrt{5}$, and pi.

Assessment Objective	<i>Summer Success: Math Grade 6</i>
a Read, write, order and compare common fractions decimals, and percents in a variety of forms.	Teacher's Edition: 44b, 49, 50, 67, 67a, 68b, 69, 70, 72a, 113, 114 Student Book: 49, 50, 67, 69, 114

Benchmark 3

Apply number theory concepts (for example, primes, factors, multiples) to represent numbers in various ways.

Assessment Objective	Summer Success: Math Grade 6
a Identify and use the concepts of factor, multiple, prime, composite, and square numbers.	Teacher's Edition: 19, 19a, 78c, 81, 82, 84a, 85, 86, 88a, 92b, 93, 94, 96a, 97, 98, 103, 104, 109, 110, 121, 122, 129, 130 Student Book: 19, 81, 82, 85, 86, 93, 97, 103, 104, 110, 122, 129, 130
b Describe numbers by characteristics (divisibility, even, odd, prime, composite, square).	Teacher's Edition: 81, 82, 84a, 85, 86, 88a, 78c, 96a, 97, 98, 129, 130 Student Book: 97, 129, 130

Benchmark 4

Use the relationships among fractions, decimals, and percents, including the concepts of ratio and proportion, in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 6
a Demonstrate equivalence relationships among fractions, decimals and percents in problem-solving situations (for example, two students out of eight is the same as 25%).	Teacher's Edition: 33, 34, 48a, 69, 70 The opportunity to address this objective is also available on the following pages: Teacher's Edition: 30c, 31, 36a, 37, 70a, 41, 43, 46, 54c, 68b, 69, 74 Student Book: 33, 34, 69, 70

Benchmark 5

Develop, test, and explain conjectures about properties of integers and rational numbers.

Assessment Objective	Summer Success: Math Grade 6
a Develop, test, and explain conjectures about properties of numbers (associative, commutative, identity, distributive multiplicative property of zero on whole and rational numbers.)	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6d, 12a, 12b, 16a, 17, 18, 21, 22, 24a, 64a, 78c, 79, 80, 84a, 85, 86, 88a, 116b, 117, 118, 121, 122

Benchmark 6

Use number sense to estimate and justify the reasonableness of solutions involving integers, rational numbers, and common irrational numbers such as $\sqrt{2}$, $\sqrt{5}$ and π .

Assessment Objective	Summer Success: Math Grade 6
a Use number sense to estimate, determine and justify the reasonableness of solutions involving whole numbers, decimals, and common fractions (only sums and differences for fractions and decimals). For example: is $\frac{1}{2} + \frac{1}{3}$ closer to 0, $\frac{1}{2}$ or 1?	Teacher's Edition: 23, 24 The opportunity to address this objective is also available throughout the text. Student Book: 23

STANDARD 2

Students use algebraic methods to explore model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation.

Assessment Objectives	Summer Success: Math Grade 6
a Represent, describe, and analyze geometric and numeric patterns using tables, words, symbols, concrete objects, or pictures.	Teacher's Edition: 12a, 13, 14, 16a, 17, 18, 21, 22, 24a, 25, 30c, 31, 32, 36a, 37, 38, 40a, 41, 42, 44b, 45, 46, 48a, 49, 50, 55, 56, 60a, 61, 62, 65, 66, 69, 70, 73, 74, 79, 80, 85, 86, 89, 90, 97, 98, 109, 110, 113, 114, 127, 128, 133, 134 Student Book: 13, 14, 17, 18, 21, 25, 31, 36, 38, 41, 45, 49, 55, 61, 65, 69, 73, 79, 85, 89, 97, 98, 109
b Use a variable to represent an unknown (letter, box, symbol).	Teacher's Edition: 92b, 93, 94, 116b, 116c, 120a Student Book: 93

Benchmark 2

Describe patterns using variables, expressions, equations, and inequalities in problem solving situations.

Assessment Objectives	Summer Success: Math Grade 6
a Solve problems by representing and analyzing patterns using tables, words, concrete objects or pictures.	Teacher's Edition: 23, 24, 35, 36, 39, 40, 83, 84, 87, 88, 116, 116a, 116c, 119, 120, 140c, 143, 144, 144b Student Book: 23, 35, 36, 39, 40, 87, 88, 119, 143

Benchmark 3

Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time).

Assessment Objectives	Summer Success: Math Grade 6
a Predict and describe how a change in one quantity results in a change in another quantity in a linear relationship (for example, A creature gains 3 oz. a day, how much will it have gained over 10 days?)	Teacher's Edition: 116c, 140b, 140c, 144a, 144b, 145, 146 Student Book: 145

Benchmark 4

Distinguish between linear and nonlinear functions through informal investigations.

Assessment Objectives	Summer Success: Math Grade 6
a Explain whether data presented in a chart or graph is changing at a constant rate.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 36, 36, 39, 40, 116c, 140c, 144b, 146 Student Book: 35, 36, 39, 40, 146

Benchmark 5

Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, and graphical) and a variety of tools (physical materials, calculators, and computers).

Assessment Objectives	Summer Success: Math Grade 6
a Solve problems using tables, concrete objects, or pictures involving linear relationships with whole numbers.	Teacher's Edition: 116c, 140c, 141, 142, 144b, 146 Student Book: 141, 142, 146

STANDARD 3

Students use data collection and analysis statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots, box plots, stem-and-leaf plots) and appropriate technology.

Assessment Objectives	Summer Success: Math Grade 6
a Organize and construct a line graph, bar graph, and frequency table from a given set of data.	Teacher's Edition: 11, 12, 35, 36, 39, 40, 141, 142 Student Book: 11, 12, 35, 36, 39, 40, 141, 142
b Read, interpret and draw conclusions from a line graph, bar graph, circle graph and frequency table.	Teacher's Edition: 11, 12, 36, 39, 40, 59, 60, 63, 64, 141, 142 Student Book: 11, 12, 35, 36, 39, 40, 59, 60, 63, 64, 141, 142

Benchmark 2

Display and use measures of central tendency, such as mean, median and mode and measures of variability, such as range and quartiles.

Assessment Objectives	Summer Success: Math Grade 6
a Find and use measures of central tendency including mean, median, and mode.	Teacher's Edition: 131, 132, 135, 135 Student Book: 131, 132, 135, 136
b Find and use the range from a given set of data (for example, find the range from 2 to 12. Note: the range is 10).	Teacher's Edition: 131, 132, 135, 136 Student Book: 131, 132, 135, 136

Benchmark 3

Evaluate arguments that are based on statistical claims.

Assessment Objectives	Summer Success: Math Grade 6
<i>No objectives assessed at this level.</i>	

Benchmark 4

Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis.

Assessment Objectives	Summer Success: Math Grade 6
a Analyze data and draw conclusions to predict outcomes based on data displays such as line graphs, bar graphs, or frequency tables.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 15, 16, 35, 36, 39, 40, 59, 60, 87, 88, 111, 112, 131, 132, 135, 136 Student Book: 11, 12, 15, 16, 35, 36, 39, 40, 59, 60, 87, 88, 111, 112, 131, 132, 135, 136

Benchmark 5

Determine probabilities through experiments or simulations.

Assessment Objectives	Summer Success: Math Grade 6
No objectives assessed at this level.	

Benchmark 6

Make predictions and compare results using both experimental and theoretical probability drawn from real-world problems.

Assessment Objectives	Summer Success: Math Grade 6
b Make predictions based on data obtained from simple probability experiments.	Teacher's Edition: 33, 34, 83, 84, 87, 88 111, 112 Student Book: 33, 34, 83, 84, 87, 88
c Describe an event as likely or unlikely and explain the degree of likelihood using words such as certain, very likely, not likely, or impossible.	Teacher's Edition: 33, 34, 83, 84, 87, 88 Student Book: 33, 34, 83, 84, 87, 88

Benchmark 7

Use counting strategies to determine all the possible outcomes from an experiment (for example, the number of ways students can line up to have their picture taken).

Assessment Objectives	Summer Success: Math Grade 6
a Determine the number of possible outcomes for simple events using a variety of methods such as : organized lists, or tree diagrams.	Teacher's Edition: 107, 108, 111, 112 Student Book: 107, 108, 111, 112

S T A N D A R D 4

Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Construct two-and three-dimensional models using a variety of materials and tools.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
<i>No objectives assessed at this level.</i>	

B e n c h m a r k 2

Describe, analyze and reason informally about the properties (for example, parallelism, perpendicularity, congruence) of two-and three-dimensional figures.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
a Identify, compare, and analyze the attributes of two-and three-dimensional shapes and develop vocabulary to describe the attributes (for example, acute, obtuse, right angle, parallel lines, perpendicular lines, intersecting lines, and line segments).	Teacher’s Edition: 12b, 20c, 24b, 30d, 36b, 40b, 44c, 46, 48b, 49, 50, 54d, 78d, 80, 84b, 88b, 90, 92c, 96b Student Book: 46, 50, 80, 90
b Make and test conjectures about geometric relationships and develop logical arguments to justify conclusions.	Teacher’s Edition: 16b 30d, 40b, 44c

B e n c h m a r k 3

Apply the concept of ratio, proportion and similarity in problem-solving situations.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
<i>No objectives assessed at this level.</i>	

B e n c h m a r k 4

Solve problems using coordinate geometry.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
a Plot points on a coordinate graph in quadrant 1	Teacher’s Edition: 102d, 103, 104, 105, 106, 108b, 109, 110, 112b, 113, 114, 145, 146 Student Book: 103, 105, 106, 110, 114, 146

Assessment Objectives	Summer Success: Math Grade 6
b Draw a graph (in quadrant 1) from a given scenario or table.	Teacher's Edition: 36, 40, 144b, 146 Student Book: 35, 36, 39, 40, 146

B e n c h m a r k 5

Solving problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions.

Assessment Objectives	Summer Success: Math Grade 6
a Solve problems involving the perimeter of polygons.	Teacher's Edition: 6e, 12b, 16b, 30d, 38, 42, 44c, 46, 48b, 121, 122 Student Book: 38, 42, 46, 121
b Solve problems involving area of polygons (square, rectangle, parallelogram, rhombus, triangle).	Teacher's Edition: 12b, 21, 22, 24b, 30d, 31, 32, 36b, 37, 38, 68c, 120b Student Book: 21, 32, 38

B e n c h m a r k 6

Transforming geometric figures using reflections, translations, and rotations to explore congruence.

Assessment Objectives	Summer Success: Math Grade 6
a Identify congruent shapes using reflections, rotations, and translations.	Teacher's Edition: 126d, 128 132b, 136b, 138 Student Book: 128, 138
b Show lines of symmetry on a two-dimensional figure.	Teacher's Edition: 16b, 20c, 24b, 36b, 40b, 44c, 108b, 120b

S T A N D A R D 5

Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

B e n c h m a r k 3

Read and interpret various scales including those based on number lines, graphs, and maps.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
a Read and interpret scales on number lines, graphs, and maps.	Teacher's Edition: 11, 12, 15, 16, 35, 36, 39, 40, 44b, 54c, 64a, 68c, 72a Student Book: 11, 12, 15, 16, 39, 40, 35, 36
b Select the appropriate scale for a given problem (for example, using the appropriate scale when setting up a graph or determining the order of numbers on a number line).	Teacher's Edition: 11, 12, 15, 16, 35, 36, 39, 40 Student Book: 11, 12, 15, 16, 35, 36, 39, 40

B e n c h m a r k 4

Develop and use formulas and procedures to solve problems involving measurement.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
a Use formulas and/or procedures to solve problems involving the perimeter of a polygon.	Teacher's Edition: 6e, 7, 12b, 16b, 30d, 37, 38, 40b, 41, 42, 44c, 45, 46, 48b, 121, 122 Student Book: 7, 38, 42, 46, 121
b Use formulas and/or procedures to solve problems involving the area of squares, rectangles, parallelograms, rhombus and triangles.	Teacher's Edition: 12b, 20c, 21, 24b, 30d, 36b, 37, 38, 44c, 45, 46, 48b, 121, 122 Student Book: 21, 38, 114

B e n c h m a r k 5

Describe how a change in an object's linear dimensions affects its perimeter, area, and volume.

Assessment Objectives	Summer Success: Math Grade 6
a Demonstrate how changing one of the dimensions of a rectangle or triangle affects its perimeter and area using concrete materials or graph paper.	Teacher's Edition: 12b, 20c, 21, 24b The opportunity to address this objective is also available on the following pages: Teacher's Edition: 6e, 12b, 16b, 30d, 37, 38, 88b, 113, 114 Student Book: 21

B e n c h m a r k 6

Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.

Assessment Objectives	Summer Success: Math Grade 6
<i>No objectives assessed at this level.</i>	

S T A N D A R D 6

Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers, in problem-solving situations and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Use models to explain how ratios, proportions, and percents can be used to solve real-world problems.

Assessment Objectives	Summer Success: Math Grade 6
a Use concrete materials or pictures to determine commonly used percentages (for example, 25%, 50%) in problem-solving situations.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 36b, 60a, 61 Student Book: 61

B e n c h m a r k 2

Construct, use and explain procedures to compute and estimate with whole numbers, fractions, decimals, and integers.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
b Use and explain strategies to add/subtract decimals and fractions in problem-solving situations (common fractions with like and unlike denominators, mixed numbers, and decimals to thousandth.)	Teacher's Edition: 51, 52, 67, 67a Student Book: 51, 52
c Find equivalent representations by decomposing and composing whole numbers (for example, $48 \times 12 = (48 \times 10) + (48 \times 2)$).	Teacher's Edition: 13, 17, 22, 85
d Demonstrate proficiency with the four basic operations using whole numbers.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 8, 18, 38, 121, 139, 140 Student Book: 8, 18, 38, 121, 139, 140

B e n c h m a r k 4

Select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem-solving situations and determining whether the results are reasonable.

Assessment Objectives	<i>Summer Success: Math Grade 6</i>
a Apply appropriate computation methods to solve problems involving whole numbers, common fractions, and decimals (use only addition and subtraction of fractions and decimals).	The opportunity to address this objective is available throughout the text.
b In a problem-solving situation, determine whether the results are reasonable and justify those results with accurate computation.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 20,20a, 23, 24, 27, 28, 44, 44a, 47, 48, 51, 52, 68, 68a, 71, 72, 75, 76, 92, 92a, 95, 96, 99, 100, 116, 116a, 119, 120, 123, 124, 140, 140a, 143, 144, 147, 148 Student Book: 23, 27, 44, 47, 51, 68, 71, 75, 92, 95, 99, 116, 119, 123, 140, 143, 147,



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correlated to
Colorado Standards
CSAP Mathematics Assessment Framework
Grade 7

STANDARD 1

Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Demonstrate meanings for integers, rational numbers, percents, exponents, square roots, and pi using physical materials and technology in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 7
a Recognize and use equivalent representations of positive rational numbers.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6d, 7, 12a, 13, 17, 20b, 20c, 21, 23, 24a, 25, 27, 31, 40a, 41, 42, 46, 48a, 126c Student Book: 7, 13, 17, 21, 23, 25, 27, 31, 41, 42, 46
b Use models to represent integers.	Teacher's Edition: 54c, 54d, 55, 60a, 61, 64a, 64b, 65, 68b, 72a, 73, 126c Student Book: 61, 65, 73
c Use exponents to indicate how many times a base is used as a factor for positive integers.	Teacher's Edition: 88a, 89, 91, 92 Student Book: 89, 91, 92

Benchmark 2

Read, write and order integers, rational numbers, and common irrational numbers, such as $\sqrt{2}$, $\sqrt{5}$, and π .

Assessment Objective	Summer Success: Math Grade 7
a Read, write, order and compare positive rational numbers and integers.	Teacher's Edition: 49, 60a, 61, 64a, 68b, 69, 72c, 126c, 127, 132a Student Book: 49, 61, 69
b Locate positive rational numbers and integers on a number line.	Teacher's Edition: 6e, 24a, 37, 49, 68b, 110, 127 Student Book: 37, 49, 110, 127

Benchmark 3

Apply number theory concepts (for example, primes, factors, multiples) to represent numbers in various ways.

Assessment Objective	Summer Success: Math Grade 7
a Describe numbers by their characteristics (for example, even, odd, prime, composite, and divisibility, square).	Teacher's Edition: 81, 82, 92b, 115, 116 Student Book: 81, 82, 115, 116 The opportunity to address this objective is also available throughout the text.

Benchmark 4

Use the relationships among fractions, decimals, and percents, including the concepts of ratio and proportion, in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 7
a Use the relationships among fractions, decimals and percents, including the concepts of ratio and proportion, in problem-solving situations.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6d, 7, 12a, 13, 20b, 21, 24a, 25, 31, 37, 40a, 41, 44b, 45, 46, 48a, 49, 62, 98, 101, 102 Student Book: 7, 13, 21, 25, 31, 37, 41, 45, 46, 49, 62, 98, 101, 102

Benchmark 5

Develop, test, and explain conjectures about properties of integers and rational numbers.

Assessment Objective	Summer Success: Math Grade 7
No objectives assess at this level.	

Benchmark 6

Use number sense to estimate and justify the reasonableness of solutions to problems involving integers, rational numbers, and common irrational numbers such as $\sqrt{2}$, $\sqrt{5}$, and pi.

Assessment Objective	Summer Success: Math Grade 7
a Estimate, solve and justify the reasonableness of solutions to problems involving positive rational numbers or integers.	Teacher's Edition: 19, 19a, 20, 20a, 23, 24, 27, 28, 44, 44a, 47, 48, 51, 52, 68, 68a, 71, 72, 75, 76, 92, 92a, 95, 96, 99, 100, 116, 116a, 119, 120, 123, 124, 140, 140a Student Book: 19, 20, 23, 27, 44, 47, 51, 68, 71, 75, 92, 95, 99, 116, 119, 123, 140

STANDARD 2

Students use algebraic methods to explore model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation.

Assessment Objectives	Summer Success: Math Grade 7
a Represent, describe, and numeric or geometric patterns involving common positive rational numbers or integers using tables, graphs, rules, or symbols.	Teacher's Edition: 6d, 12a, 13, 16a, 17, 20b, 21, 24a, 25, 27, 28, 30c, 36a, 37, 44b, 45, 48a, 49, 50, 60a, 61, 64a, 65, 72a, 78c, 79, 84a, 85, 90b, 92b, 108a, 109, 140b Student Book: 13, 17, 21, 25, 27, 37, 45, 49, 50, 61, 65, 79, 85, 109

Benchmark 2

Describe patterns using variables, expressions, equations, and inequalities in problem solving situations.

Assessment Objectives	Summer Success: Math Grade 7
a Solve problems by representing and analyzing patterns using involving positive rational numbers or integers using tables, graphs, or rules.	Teacher's Edition: 11, 12, 15, 16, 35, 36, 39, 40, 47, 48, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 143, 144, 146, 147 Student Book: 11, 12, 15, 16, 35, 36, 39, 40, 47, 48, 59, 60, 63, 64, 83, 84, 87, 88, 104, 108, 111, 112, 143, 144, 146, 147

Benchmark 3

Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time).

Assessment Objectives	Summer Success: Math Grade 7
a Predict and describe how a change in one quantity results in a change in another quantity in a linear relationship	Teacher's Edition: 20b, 24a, 65, 78c, 102c, 103, 108a, 109, 112a, 113, 116b, 117, 132a Student Book: 65, 103, 109, 113, 117

Benchmark 4

Distinguish between linear and nonlinear functions through informal investigations.

Assessment Objectives	Summer Success: Math Grade 7
<i>No objectives assessed at this level.</i>	

Benchmark 5

Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, and graphical) and a variety of tools (physical materials, calculators, and computers).

Assessment Objectives	Summer Success: Math Grade 7
a Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, or graphic).	Teacher's Edition: 102c, 103, 108a, 109, 112a, 113, 116b, 117, 120a, 121, 140, 140a, 143, 144 Student Book: 103, 109, 117, 121, 140, 143, 144

Assessment Objectives	Summer Success: Math Grade 7
b Translate written words to algebraic expressions/equations and conversely, algebraic expressions/equations to words.	Teacher's Edition: 12a, 20b, 24a, 27, 28, 44a, 44b, 47, 48, 48a, 51, 52, 68, 68a, 68b, 69, 92a, 99, 100, 103, 116b, 117, 120a, 126c, 132a, 133, 136a, 137 Student Book: 27, 47, 51, 68, 69, 99, 103, 104, 109, 133, 137

S T A N D A R D 3

Students use data collection and analysis statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots, box plots, stem-and-leaf plots) and appropriate technology.

Assessment Objectives	Summer Success: Math Grade 7
a Construct a histogram or stem and leaf from a set of given data.	Teacher's Edition: 15, 16, 39, 40, 63, 64 Student Book: 15, 16, 39, 40, 63, 64
b Read, interpret and draw conclusions from histograms, circle graphs, stem and leaf plots and scatter plots.	Teacher's Edition: 15, 16, 35, 36, 39, 40, 59, 60, 63, 64, 107, 108, 111, 112 Student Book: 15, 16, 35, 36, 39, 40, 59, 60, 63, 64, 107, 108, 111, 112

B e n c h m a r k 2

Display and use measures of central tendency, such as mean, median and mode and measures of variability, such as range and quartiles.

Assessment Objectives	Summer Success: Math Grade 7
a Given a display of data (for example, line plot, stem and leaf plot, list of data), determine the mean, mode, median and range.	Teacher's Edition: 11, 12, 35, 36, 39, 40 Student Book: 11, 12, 35, 36, 39, 40

Benchmark 3

Evaluate arguments that are based on statistical claims.

Assessment Objectives	Summer Success: Math Grade 7
a Evaluate arguments that are based on measures of central tendency or data displays.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 35, 36, 39, 40, 59, 60, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136, 143, 144, 146, 147 Student Book: 11, 12, 35, 36, 39, 40, 59, 60, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136, 143, 144, 146, 147

Benchmark 4

Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis.

Assessment Objectives	Summer Success: Math Grade 7
a Analyze data and draw conclusions to predict outcomes based on data displays such as histograms and stem and leaf plots.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 35, 36, 39, 40, 59, 60, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136, 143, 144, 146, 147 Student Book: 11, 12, 35, 36, 39, 40, 59, 60, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136, 143, 144, 146, 147

Benchmark 5

Determine probabilities through experiments or simulations.

Assessment Objectives	Summer Success: Math Grade 7
<i>No objectives assessed at this level.</i>	

Benchmark 6

Make predictions and compare results using both experimental and theoretical probability drawn from real-world problems.

Assessment Objectives	Summer Success: Math Grade 7
a Report the probability of an event in fraction, decimal and percent form.	Teacher's Edition: 131, 132, 135, 136 Student Book: 131, 132, 135, 136

Assessment Objectives	Summer Success: Math Grade 7
b Determine the probability of simple independent events (for example, tossing a coin and rolling a die).	Teacher's Edition: 149, 150 Student Book: 149, 150
c Make predictions based on theoretical probability.	Teacher's Edition: 29, 131, 132, 135, 136, 149, 150 Student Book: 131, 132, 135, 136, 149, 150

B e n c h m a r k 7

Use counting strategies to determine all the possible outcomes from an experiment (for example, the number of ways students can line up to have their picture taken).

Assessment Objectives	Summer Success: Math Grade 7
a Determine the number of possible outcomes from a given event using a variety of strategies, such as: tree diagrams, or organized lists.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 131, 132, 135, 136, 146, 147, 149, 150 Student Book: 131, 132, 135, 136, 146, 147, 149, 150

S T A N D A R D 4

Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Construct two-and three-dimensional models using a variety of materials and tools.

Assessment Objectives	Summer Success: Math Grade 7
<i>No objectives assessed at this level.</i>	

Benchmark 2

Describe, analyze and reason informally about the properties (for example, parallelism, perpendicularity, congruence) of two-and three-dimensional figures.

Assessment Objectives	Summer Success: Math Grade 7
a Describe, analyze and reason informally about the attributes of two-and three-dimensional shapes (for example, angles, sides, edges, faces, vertices).	Teacher's Edition: 24b, 26, 30d, 32, 38, 40b, 48b, 72b, 78d, 92c, 102d, 108b, 112b, 116c, 126d, 132b, 144b Student Book: 26, 32, 38

Benchmark 3

Apply the concept of ratio, proportion and similarity in problem-solving situations.

Assessment Objectives	Summer Success: Math Grade 7
a Identify and compare similar shapes using ratio, proportion, or scale factor.	Teacher's Edition: 16b, 30d, 36b, 44c, 46, 47, 48, 48b, 96b Student Book: 46, 47, 48

Benchmark 4

Solve problems using coordinate geometry.

Assessment Objectives	Summer Success: Math Grade 7
a Construct a coordinate graph and plot ordered integer pairs in all four quadrants.	Teacher's Edition: 54d, 55, 57, 58, 60b, 64b, 66, 70, 74, 79, 85, 96b Student Book: 56, 57, 58, 66, 70, 74, 79, 85

Benchmark 5

Solving problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions.

Assessment Objectives	Summer Success: Math Grade 7
a Solve problems involving the circumference of a circle (formulas not provided).	Teacher's Edition: 89, 140c Student Book: 89

Assessment Objectives	Summer Success: Math Grade 7
b Solve problems involving the areas of circles, triangles, and parallelograms (formulas not provided).	Teacher's Edition: 6e, 54d, 60b, 68c, 78d, 84b, 88b, 89, 92c, 96a, 126d, 132b, 134, 140c, 142 Student Book: 89, 142
c Solve problems involving the surface area of rectangular prisms (formulas not provided).	Teacher's Edition: 102d, 122, 123, 124 Student Book: 122, 123

B e n c h m a r k 6

Transforming geometric figures using reflections, translations, and rotations to explore congruence.

Assessment Objectives	Summer Success: Math Grade 7
a Use reflections, translations, and/or rotations, to determine congruence between figures.	Teacher's Edition: 64b, 78d, 84b, 96b

S T A N D A R D 5

Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Estimate, use and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison.

Assessment Objectives	Summer Success: Math Grade 7
a Estimate the area of irregular shapes, angle measurement, or weight of common objects.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 84b

B e n c h m a r k 2

Estimate, make, and use direct and indirect measurements to describe and make comparisons.

Assessment Objectives	Summer Success: Math Grade 7
a Estimate, make and use direct and indirect measurements to describe and make comparisons.	Teacher's Edition: 6e, 36b, 48b, 96b

Benchmark 3

Read and interpret various scales including those based on number lines, graphs, and maps.

Assessment Objectives	Summer Success: Math Grade 7
a Read and interpret scales on number lines, graphs, and maps (for example, given a map and a scale, determine the distance between two points on the map).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6e, 11, 12, 15, 16, 24a, 39, 40, 54c, 54d, 60a, 63, 64, 72a, 83, 84, 87, 88, 107, 108, 111, 112, 143, 144, 146, 147 Student Book: 11, 12, 15, 16, 39, 40, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 143, 144, 146, 147
b Select the appropriate scale for a given problem (for example, using the appropriate scale when setting up a graph or intervals on a histogram).	Teacher's Edition: 11, 12, 15, 16, 39, 40, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132 Student Book: 11, 12, 15, 16, 39, 40, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132

Benchmark 4

Develop and use formulas and procedures to solve problems involving measurement.

Assessment Objectives	Summer Success: Math Grade 7
a Develop and use procedures or formulas to solve problems involving area of polygons (for example, trapezoids, regular hexagons, regular octagons).	Teacher's Edition: 27, 28, 46, 54d, 60b, 64b, 68c, 72b, 78d, 84b, 96b, 143, 144, 144b Student Book: 27, 46, 143, 144

Benchmark 5

Describe how a change in an object's linear dimensions affects its perimeter, area, and volume.

Assessment Objectives	Summer Success: Math Grade 7
a Describe how a change in an object's linear dimensions affects its perimeter and area (for example, how a change in the radius or diameter will affect the circumference and area of a circle).	Teacher's Edition: 38, 46, 48b, 64b, 72b, 78d, 92c, 96b, 140c Student Book: 38, 46

Benchmark 6

Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.

Assessment Objectives	Summer Success: Math Grade 7
a Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situations (for example, reconstruct a replica of a given figure).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 12b, 16b, 20c, 22, 36b, 84b, 96b, 146 Student Book: 146

STANDARD 6

Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers, in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Use models to explain how ratios, proportions, and percents can be used to solve real-world problems.

Assessment Objectives	Summer Success: Math Grade 7
a Use concrete materials or pictures explain how ratios, proportion, and percents can be used to solve real world problems.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 6e, 12a, 12b, 20b, 20c, 44b, 48a, 66 Student Book: 66

Benchmark 2

Construct, use and explain procedures to compute and estimate with whole numbers, fractions, decimals, and integers.

Assessment Objectives	Summer Success: Math Grade 7
a Apply order of operations (including exponents with positive rational numbers).	Teacher's Edition: 132a, 132b, 133, 146 Student Book: 133, 146
b Add, subtract, multiply, and divide positive rational numbers or integers.	The opportunity to address this objective is available throughout the text.
c Explain strategies to add, subtract and multiply positive rational numbers.	The opportunity to address this objective is available throughout the text.

Benchmark 3

Develop, apply and explain a variety of different estimation strategies in problem-solving situations, and explain why an estimate may be acceptable in place of an exact answer.

Assessment Objectives	Summer Success: Math Grade 7
a Explain why an estimate may be acceptable in place of an exact answer.	The opportunity to address this objective is available throughout the text.

Benchmark 4

Select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem-solving situations and determining whether the results are reasonable.

Assessment Objectives	Summer Success: Math Grade 7
a Determine what information is necessary or missing in a problem-solving situation.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 23, 24, 27, 28, 44, 44a, 47, 48, 51, 52, 68, 68a, 71, 72, 75, 76, 92, 92a, 95, 96, 99, 100, 116, 116a, 119, 120, 123, 124, 140, 140a Student Book: 23, 27, 44, 47, 48, 51, 68, 71, 75, 92, 95, 99, 116, 119, 120, 123, 140
b Solve problems involving positive rational numbers and/or integers.	The opportunity to address this objective is available throughout the text.
c Create a situation that matches a given number sentence involving positive rational numbers or integers, excluding division of fractions and decimals.	Teacher's Edition: 23, 24, 27, 28, 44, 44a, 75, 76 Student Book: 23, 27, 44, 75
d Justify the reasonableness of a solution in a problem-solving situation.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 23, 24, 27, 28, 44, 44a, 47, 48, 51, 52, 71, 72, 75, 76, 92, 92a, 95, 96, 99, 100, 116, 116a, 119, 120, 123, 124, 140, 140a Student Book: 23, 27, 44, 47, 48, 51, 71, 75, 92, 95, 99, 116, 119, 123, 140



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correlated to
Colorado Standards
CSAP Mathematics Assessment Framework
Grade 8

STANDARD 1

Students develop number sense and use numbers and number relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Demonstrate meanings for integers, rational numbers, percents, exponents, square roots, and pi using physical materials and technology in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 8
a Recognize and use equivalent representations of positive rational numbers and common irrational numbers (for example, locate rational numbers on a number line and demonstrate the meaning of square roots and perfect squares).	Teacher's Edition: 6d, 7, 8, 12a, 16a, 24a, 25, 26, 43, 43a, 50, 78c, 80, 84a, 85, 86, 91, 91a, 93, 99, 100, 101, 102 Student Book: 7, 25, 26, 43, 50, 85, 86, 93, 102

Benchmark 2

Read, write and order integers, rational numbers, and common irrational numbers, such as $\sqrt{2}$, $\sqrt{5}$, and pi.

Assessment Objective	Summer Success: Math Grade 8
a Compare and order sets of integers and rational numbers that are expressed in a variety of ways.	Teacher's Edition: 54c-56, 60a, 60b, 68b, 72a, 72b, 77, 78, 118, 136a, 136b, 140b, 141, 145 Student Book: 77, 78, 118, 141

Benchmark 3

Apply number theory concepts (for example, primes, factors, multiples) to represent numbers in various ways.

Assessment Objective	Summer Success: Math Grade 8
a Apply number theory concepts (for example, primes, factors, multiples, exponents) in problem-solving situations.	Teacher's Edition: 8, 30c, 30d, 36a, 36b, 45, 46, 53, 60a, 60b, 61, 62, 65, 66, 74 Student Book: 8, 45, 46, 53, 54, 61, 62, 65, 66, 74 The opportunity to address this objective is also available throughout the text.

Benchmark 4

Use the relationships among fractions, decimals, and percents, including the concepts of ratio and proportion, in problem-solving situations.

Assessment Objective	Summer Success: Math Grade 8
a Use the relationships among fractions, decimals and percents, including the concepts of ratio and proportion, in problem-solving situations.	Teacher's Edition: 20b, 23, 24, 24a, 43, 43a, 56, 84b, 91, 91a, 113, 114, 140, 140a, 145, 146 Student Book: 23, 43, 56, 91, 113, 114, 140, 145, 146

Benchmark 6

Use number sense to estimate and justify the reasonableness of solutions to problems involving integers, rational numbers, and common irrational numbers such as $\sqrt{2}$, $\sqrt{5}$, and pi.

Assessment Objective	Summer Success: Math Grade 8
a Use number sense to estimate and justify the reasonableness of solutions to problems involving integers and rational numbers.	Teacher's Edition: 9, 10, 21, 22, 51, 52, 54c, 54d, 68, 68a, 88a, 102, 115, 115a, 118, 120a, 121, 150 Student Book: 9, 10, 21, 22, 51, 52, 68, 102, 115, 118, 121, 150

STANDARD 2

Students use algebraic methods to explore model, and describe patterns and functions involving numbers, shapes, data, and graphs in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Represent, describe, and analyze patterns and relationships using tables, graphs, verbal rules, and standard algebraic notation.

Assessment Objectives	Summer Success: Math Grade 8
a Represent, describe, and analyze patterns (for example, geometric and numeric) and relationships using tables, graphs, verbal rules, and standard algebraic notation.	Teacher's Edition: 6d, 7, 12a, 16a, 20b, 21, 24a, 30c, 30d, 36b-38, 42, 44, 44b, 48a, 55, 68b, 69, 73, 79, 103, 132a, 132b, 133 Student Book: 7, 21, 42, 44, 55, 69, 73, 79, 103, 133
b Convert from one functional representation (table, graph, verbal rule, standard algebraic notation) to another.	Teacher's Edition: 6e, 7, 12a, 12b, 13, 24a, 25, 26, 30c, 40a, 46, 54c, 78c, 84a, 96a, 102c, 103, 108a, 109, 116, 116b, 117, 120a, 121, 126c, 127, 128, 132a, 140b, 144a Student Book: 7, 13, 25, 26, 46, 103, 109, 117, 121, 127, 128

Benchmark 2

Describe patterns using variables, expressions, equations, and inequalities in problem solving situations.

Assessment Objectives	Summer Success: Math Grade 8
a Describe patterns using variables, expressions, equations, and inequalities in problem-solving situations.	Teacher's Edition: 44, 44a, 68, 68a Student Book: 44, 68

Benchmark 3

Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how the area of a circle changes as the radius increases, or how a person's height changes over time).

Assessment Objectives	Summer Success: Math Grade 8
a Analyze functional relationships to explain how a change in one quantity results in a change in another (for example, how a person's height changes over time).	Teacher's Edition: 102c, 108a, 102d, 112a, 116c, 136a, 144a

Benchmark 4

Distinguish between linear and nonlinear functions through informal investigations.

Assessment Objectives	Summer Success: Math Grade 8
a Distinguish between linear and nonlinear functions through informal investigations.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 20b, 36b, 40a, 78c, 84a, 103, 105, 106, 108a, 109, 112a, 113, 116b, 117, 120a, 120b, 121, 128, 132a, 133, 136a, 137, 139, 139a, 144a, 145 Student Book: 103, 105, 106, 109, 113, 117, 121, 128, 133, 137, 139, 145

Benchmark 5

Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, and graphical) and a variety of tools (physical materials, calculators, and computers).

Assessment Objectives	Summer Success: Math Grade 8
a Solve simple linear equations in problem-solving situations using a variety of methods (informal, formal, or graphic).	The opportunity to address this objective is available on the following pages: Teacher's Edition: 102c, 105, 106, 108a Student Book: 105, 106

STANDARD 3

Students use data collection and analysis statistics, and probability in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Read and construct displays of data using appropriate techniques (for example, line graphs, circle graphs, scatter plots, box plots, stem-and-leaf plots) and appropriate technology.

Assessment Objectives	Summer Success: Math Grade 8
a Read and construct displays of data using appropriate techniques (for example, circle graphs, scatter plots, box and whisker plots, stem-and-leaf plots)	Teacher's Edition: 11, 12a, 15, 16, 35-36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112 Student Book: 11, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112

Benchmark 2

Display and use measures of central tendency, such as mean, median and mode and measures of variability, such as range and quartiles.

Assessment Objectives	Summer Success: Math Grade 8
a Display and use measures of central tendency, (such as mean, median, and mode) and measures of variability, (such as range and quartiles) in problem-solving situations.	Teacher's Edition: 11, 12, 59, 60, 63, 64, 87, 88, 146 Student Book: 11, 12, 59, 60, 63, 64, 87, 88, 146

Benchmark 3

Evaluate arguments that are based on statistical claims.

Assessment Objectives	Summer Success: Math Grade 8
a Analyze a graph, table or summary for misleading characteristics.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12a, 15, 16, 35-36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112 Student Book: 11, 12, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112
c Describe how data can be interpreted in more than one way or be used to support more than one position in a debate.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112 Student Book: 11, 12, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 107, 108, 111, 112

Benchmark 4

Formulate hypotheses, drawing conclusions, and making convincing arguments based on data analysis.

Assessment Objectives	Summer Success: Math Grade 8
a Formulate hypotheses, draw conclusions, and make convincing arguments based on data analysis.	The opportunity to address this objective is available on the following pages: Teacher's Edition: 11, 12, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136 Student Book: 11, 12, 15, 16, 35, 36, 59, 60, 63, 64, 83, 84, 87, 88, 107, 108, 111, 112, 131, 132, 135, 136

Benchmark 5

Determine probabilities through experiments or simulations.

Assessment Objectives	Summer Success: Math Grade 8
<i>No objectives assessed at this level.</i>	

Benchmark 6

Make predictions and compare results using both experimental and theoretical probability drawn from real-world problems.

Assessment Objectives	Summer Success: Math Grade 8
a Use a model (list, tree diagram, area model) to determine theoretical probabilities to solve problems involving uncertainty.	Teacher's Edition: 129, 130, 135, 136 Student Book: 129, 130, 135, 136
b Make predictions using theoretical probability in real-world problems.	Teacher's Edition: 129, 130, 135, 136 Student Book: 129, 130, 135, 136

STANDARD 4

Students use geometric concepts, properties, and relationships in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Construct two- and three-dimensional models using a variety of materials and tools.

Assessment Objectives	Summer Success: Math Grade 8
<i>No objectives assessed at this level.</i>	

Benchmark 2

Describe, analyze and reason informally about the properties (for example, parallelism, perpendicularity, congruence) of two- and three-dimensional figures.

Assessment Objectives	Summer Success: Math Grade 8
a Describe, analyze and reason informally about properties (for example, parallelism, perpendicularity, congruence, and similarity) of two- and three-dimensional figures.	Teacher's Edition: 6e, 12b, 20c, 24b, 40b, 42, 44c, 48b, 86, 97, 108b, 112b, 120b, 122, 132b, 144b, 146 Student Book: 42, 86, 97, 122

Benchmark 3

Apply the concept of ratio, proportion and similarity in problem-solving situations.

Assessment Objectives	Summer Success: Math Grade 8
a Apply the concept of ratio, proportion and similarity in problem-solving situations.	Teacher's Edition: 20, 20a, 20c, 24b, 27, 28, 48b, 86, 96b, 114, 138, 140, 140a, 146 Student Book: 20, 27, 114, 138, 140, 146

Benchmark 5

Solving problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions.

Assessment Objectives	Summer Success: Math Grade 8
a Solve problems involving perimeter and area in two dimensions, and involving surface area and volume in three dimensions (include right prisms and cylinders).	Teacher's Edition: 6e, 16b, 20, 20a, 24b, 26, 27, 28, 30d, 36a, 37, 41, 42, 44, 44a, 44b, 47, 48, 57, 58, 60b, 64b, 68c, 72b, 79, 84a, 85, 95, 96, 96b, 97, 102d, 104, 108b, 109, 112b, 114, 116c, 118, 120b, 120d, 126d, 132b, 134, 144b, 146 Student Book: 20, 26, 27, 37, 41, 42, 44, 47, 48, 57, 58, 79, 85, 95, 96, 97, 104, 109, 114, 118
b Apply the Pythagorean Theorem to solve real-world problems.	Teacher's Edition: 95, 96 Student Book: 95, 96 The opportunity to address this objective is also available on the following pages: Teacher's Edition: 20c, 78d, 79, 80, 84b

Benchmark 6

Transform geometric figures using reflections, translations, and rotations to explore congruence.

Assessment Objectives	Summer Success: Math Grade 8
a Transform geometric figures using reflections, translations, and rotations to determine congruence.	Teacher's Edition: 36b, 60b, 62, 64b, 68c Student Book: 62

S T A N D A R D 5

Students use a variety of tools and techniques to measure, apply the results in problem-solving situations, and communicate the reasoning used in solving these problems.

B e n c h m a r k 1

Estimate, use and describe measures of distance, perimeter, area, volume, capacity, weight, mass, and angle comparison.

Assessment Objectives	<i>Summer Success: Math Grade 8</i>
a Estimate and use measures of area, volume, capacity, weight, and angle comparisons to solve problems.	Teacher's Edition: 132b, 144b

B e n c h m a r k 2

Estimate, make, and use direct and indirect measurements to describe and make comparisons.

Assessment Objectives	<i>Summer Success: Math Grade 8</i>
a Estimate, make and use direct and indirect measurements to describe and make comparisons (for example, use a proportion to find the height of a flag pole).	Teacher's Edition: 98 Student Book: 98

B e n c h m a r k 3

Read and interpret various scales including those based on number lines, graphs, and maps.

Assessment Objectives	<i>Summer Success: Math Grade 8</i>
a Read and interpret scales on number lines, graphs, and maps (for example, given a map and a scale, determine the distance between two points on the map).	Teacher's Edition: 24a, 25, 54c, 60a, 72a, 77, 78, 140b, 141 Student Book: 25, 77, 78, 141

B e n c h m a r k 4

Develop and use formulas and procedures to solve problems involving measurement.

Assessment Objectives	<i>Summer Success: Math Grade 8</i>
a Develop and use procedures or formulas to solve problems involving measurement (for example, distance, area, surface area, and volume of right prisms and cylinders).	The opportunity to address this objective is available throughout the text.

Benchmark 5

Describe how a change in an object's linear dimensions affects its perimeter, area, and volume.

Assessment Objectives	Summer Success: Math Grade 8
a Describe how a change in an object's linear dimensions affects its perimeter, area and volume (for example, how the area of a circle changes as the radius increases).	Teacher's Edition: 102d, 116c, 126d

Benchmark 6

Select and use appropriate units and tools to measure to the degree of accuracy required in a particular problem-solving situation.

Assessment Objectives	Summer Success: Math Grade 8
No objectives assessed at this level.	

STANDARD 6

Students link concepts and procedures as they develop and use computational techniques, including estimation, mental arithmetic, paper-and-pencil, calculators, and computers, in problem-solving situations and communicate the reasoning used in solving these problems.

Benchmark 1

Use models to explain how ratios, proportions, and percents can be used to solve real-world problems.

Assessment Objectives	Summer Success: Math Grade 8
a Use models to explain how ratios, proportions, and percents can be used to solve real-world problems.	Teacher's Edition: 16a, 56, 114, 140, 140a, 146 Student Book: 56, 114, 140, 140, 146

Benchmark 3

Develop, apply and explain a variety of different estimation strategies in problem-solving situations, and explain why an estimate may be acceptable in place of an exact answer.

Assessment Objectives	Summer Success: Math Grade 8
No objectives assess at this level.	

B e n c h m a r k 4

Select and use appropriate algorithms for computing with commonly used fractions and decimals, percents, and integers in problem-solving situations and determining whether the results are reasonable.

Assessment Objectives	<i>Summer Success: Math Grade 8</i>
a Apply computational methods (including ratio and proportion) to solve problems involving commonly used fractions, decimals, percents, and integers (for example, discount tax, sale price, unit price) and determine whether the results are reasonable.	The opportunity to address this objective is available throughout the text.



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