



Correlation

Standards of Learning for Virginia

Mathematics

Grade Five

**For more information about this correlation,
a quote or to place an order, please contact:**

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Fax 804-747-1378
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April 2016

**Standards of Learning for Virginia
Mathematics
Grade Five**

**Number and Number Sense
Focus: Prime and Composite Numbers and Rounding Decimals**

5.1 The student, given a decimal through thousandths, will round to the nearest whole number, tenth, or hundredth.

Decimals at the Bank (Level 2) *	Y01335	53.00	430	Benchmark Education
Decimals at the Beach (Level 4) *	Y01337	56.00	390	Benchmark Education
Decimals at the Farmer's Market (Level 3) *	Y01336	53.00	340	Benchmark Education
Decimals at the Pizzeria (Level 2) *	Y01339	53.00	320	Benchmark Education
Decimals at the Sea (Level 3) *	Y01340	53.00	410	Benchmark Education
Decimals in the News (Level 4) *	Y01341	56.00	410	Benchmark Education
Discover Decimals and Fractions (Level 1) *	Y01334	53.00	370	Benchmark Education
Discover Decimals and Place Value (Level 1) *	Y01338	53.00	430	Benchmark Education
Let's Take a Hike! Converting Fractions to Decimals *	978-0-8239-7456-6	42.00	N	Rosen Classroom
The Stock Market: Understanding and Applying Ratios, Decimals, Fractions and Percentages *	978-1-4042-5122-9	51.00	Y	Rosen Classroom

5.2 The student will

- a) recognize and name fractions in their equivalent decimal form and vice versa; and**
- b) compare and order fractions and decimals in a given set from least to greatest and greatest to least.**

Decimals at the Bank (Level 2) *	Y01335	53.00	430	Benchmark Education
Decimals at the Beach (Level 4) *	Y01337	56.00	390	Benchmark Education
Decimals at the Farmer's Market (Level 3) *	Y01336	53.00	340	Benchmark Education
Decimals at the Pizzeria (Level 2) *	Y01339	53.00	320	Benchmark Education
Decimals at the Sea (Level 3) *	Y01340	53.00	410	Benchmark Education
Decimals in the News (Level 4) *	Y01341	56.00	410	Benchmark Education
Discover Decimals and Fractions (Level 1) *	Y01334	53.00	370	Benchmark Education
Discover Decimals and Place Value (Level 1) *	Y01338	53.00	430	Benchmark Education
Let's Take a Hike! Converting Fractions to Decimals *	978-0-8239-7456-6	42.00	N	Rosen Classroom
The Stock Market: Understanding and Applying Ratios, Decimals, Fractions and Percentages *	978-1-4042-5122-9	51.00	Y	Rosen Classroom
<i>What Did I Eat? Operations with Fractions, Decimals and Percents</i>	<i>978-1-4333-3452-8</i>	<i>9.00</i>	<i>T/870</i>	<i>TCM Library</i>

<i>Title</i>	<i>ISBN/Code No.</i>	<i>Six-pack price</i>	<i>GR Level</i>	<i>Publisher</i>
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5.3 The student will

- a) identify and describe the characteristics of prime and composite numbers; and
- b) identify and describe the characteristics of even and odd numbers.

The Stock Market: Understanding and Applying Ratios, Decimals, Fractions and Percentages *	978-1-4042-5122-9	51.00	Y	Rosen Classroom
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**Computation and Estimation
Focus: Multistep Applications and Order of Operations**

5.4 The student will create and solve single-step and multistep practical problems involving addition, subtraction, multiplication, and division with and without remainders of whole numbers.

Aircraft Carriers: Supplies for a City at Sea. Multiplying Multi-digit Numbers with Regrouping	978-0-8239-7447-4	51.00	R	Rosen Classroom
American History Adds Up *	A9795	51.00	S/980	Benchmark Education
Discover Division (Level 1) *	A93789	53.00	390	Benchmark Education
Discover Estimation (Level 1)	Y01330	53.00	330	Benchmark Education
Discover Multiplication (Level 1) *	A93741	53.00	400	Benchmark Education
Discover Multiplication of Multi-digit Numbers (Level 1)	Y01326	53.00	180	Benchmark Education
Division at the Games (Level 4) *	A93819	56.00	430	Benchmark Education
Division at the Movies (Level 2) *	A93796	53.00	380	Benchmark Education
Division at the Picnic (Level 3) *	A93802	53.00	360	Benchmark Education
Estimation at the Factory (Level 2)	Y01331	53.00	280	Benchmark Education
Estimation in Space (Level 3)	Y01332	53.00	400	Benchmark Education
Estimation in the Ancient World (Level 4)	Y01333	56.00	400	Benchmark Education
Explorers in North America: Addition and Subtracting Problems Using Timelines	978-0-8239-7426-9	51.00	R	Rosen Classroom
Math To Build On *	A04216	51.00	R/800	Benchmark Education
Multiplication at the Amusement Park (Level 2)	Y01327	53.00	350	Benchmark Education
Multiplication at the Bakery (Level 4)	Y01329	56.00	510	Benchmark Education
Multiplication at the Baseball Game (Level 2) *	A93758	53.00	390	Benchmark Education
Multiplication at the Concert (Level 3)	Y01328	53.00	400	Benchmark Education
Multiplication at the Market (Level 4) *	A93772	56.00	450	Benchmark Education
Multiplication in the Community (Level 3) *	A93765	53.00	460	Benchmark Education
Working at the Farmer's Market: Solving Money Using the Four Math Equations *	978-0-8239-7448-1	42.00	N	Rosen Classroom

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5.5 The student will

- a) find the sum, difference, product, and quotient of two numbers expressed as decimals through thousandths (divisors with only one nonzero digit); and**
- b) create and solve single-step and multistep practical problems involving decimals.**

Animals of the Sea *	A9809	51.00	T/910	Benchmark Education
Baseball: The Math of the Game (Sports Math)*	978-1-4296-7316-7	47.70	U/1020	Capstone Classroom
Decimals at the Bank (Level 2) *	Y01335	53.00	430	Benchmark Education
Decimals at the Beach (Level 4) *	Y01337	56.00	390	Benchmark Education
Decimals at the Farmer's Market (Level 3) *	Y01336	53.00	340	Benchmark Education
Decimals at the Pizzeria (Level 2) *	Y01339	53.00	320	Benchmark Education
Decimals at the Sea (Level 3) *	Y01340	53.00	410	Benchmark Education
Decimals in the News (Level 4) *	Y01341	56.00	410	Benchmark Education
Discover Decimals and Fractions (Level 1) *	Y01334	53.00	370	Benchmark Education
Discover Decimals and Place Value (Level 1) *	Y01338	53.00	430	Benchmark Education
Discover Division (Level 1) *	A93789	53.00	390	Benchmark Education
Discover Equivalent Fractions (Level 1) *	A93864	53.00	340	Benchmark Education
Discover Fractions (Level 1)*	A93826	53.00	170	Benchmark Education
Discover Multiplication (Level 1) *	A93741	53.00	400	Benchmark Education
Division at the Games (Level 4) *	A93819	56.00	430	Benchmark Education
Division at the Movies (Level 2) *	A93796	53.00	380	Benchmark Education
Division at the Picnic (Level 3) *	A93802	53.00	360	Benchmark Education
Fractions at the Pet Shop (Level 3) *	A93840	53.00	360	Benchmark Education
Fractions at Work (Level 3) *	A93888	53.00	380	Benchmark Education
Fractions in Sports (Level 4) *	A93857	56.00	390	Benchmark Education
Fractions in the Garden (Level 2) *	A93871	53.00	290	Benchmark Education
Fractions in the Kitchen (Level 4) *	A93895	56.00	360	Benchmark Education
Fractions with Friends (Level 2) *	A93833	53.00	240	Benchmark Education
<i>Grandpa's Birthday Present: Understanding Percents *</i>	<i>978-0-7439-0910-5</i>	<i>9.00</i>	<i>O/620</i>	<i>TCM Library</i>
Multiplication at the Baseball Game (Level 2) *	A93758	53.00	390	Benchmark Education
Multiplication at the Market (Level 4) *	A93772	56.00	450	Benchmark Education
Multiplication in the Community (Level 3) *	A93765	53.00	460	Benchmark Education
Working at the Farmer's Market: Solving Money Using the Four Math Equations *	978-0-8239-7448-1	42.00	N	Rosen Classroom

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5.6 The student will solve single-step and multistep practical problems involving addition and subtraction with fractions and mixed numbers and express answers in simplest form.

Animals of the Sea *	A9809	51.00	T/910	Benchmark Education
Baseball: The Math of the Game (Sports Math)*	978-1-4296-7316-7	47.70	U/1020	Capstone Classroom
Discover Equivalent Fractions (Level 1) *	A93864	53.00	340	Benchmark Education
Discover Fractions (Level 1) *	A93826	53.00	170	Benchmark Education
Fractions at the Pet Shop (Level 3) *	A93840	53.00	360	Benchmark Education
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Fractions in the Kitchen (Level 4) *	A93895	56.00	360	Benchmark Education
Fractions with Friends (Level 2) *	A93833	53.00	240	Benchmark Education
<i>Grandpa's Birthday Present: Understanding Percents *</i>	<i>978-0-7439-0910-5</i>	<i>9.00</i>	<i>O/620</i>	<i>TCM Library</i>

5.7 The student will evaluate whole number numerical expressions, using the order of operations limited to parentheses, addition, subtraction, multiplication, and division.

Baseball: The Math of the Game *	978-1-4296-7316-7	47.70	U/1020	Capstone Classroom
Basketball: The Math of the Game *	978-1-4296-7318-1	47.70	U/910	Capstone Classroom
Discover Division (Level 1) *	A93789	53.00	390	Benchmark Education
Discover Multiplication (Level 1) *	A93741	53.00	400	Benchmark Education
Division at the Games (Level 4) *	A93819	56.00	430	Benchmark Education
Division at the Movies (Level 2) *	A93796	53.00	380	Benchmark Education
Division at the Picnic (Level 3) *	A93802	53.00	360	Benchmark Education
Multiplication at the Baseball Game (Level 2) *	A93758	53.00	390	Benchmark Education
Multiplication at the Market (Level 4) *	A93772	56.00	450	Benchmark Education
Multiplication in the Community (Level 3) *	A93765	53.00	460	Benchmark Education
Sports Math *	A9663	51.00	R/900	Benchmark Education
<i>Where Germs Lurk: Evaluating, Simplifying and Writing Expressions</i>	<i>978-0-4333-3455-9</i>	<i>9.00</i>	<i>T/860</i>	<i>TCM Library</i>

**Measurement
Focus: Perimeter, Area, Volume, and Equivalent Measures**

- 5.8 The student will**
- a) find perimeter, area, and volume in standard units of measure;
 - b) differentiate among perimeter, area, and volume and identify whether the application of the concept of perimeter, area, or volume is appropriate for a given situation;
 - c) identify equivalent measurements within the metric system;

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- d) estimate and then measure to solve problems, using U.S. Customary and metric units; and
e) choose an appropriate unit of measure for a given situation involving measurement using U.S. Customary and metric units.

<i>Amusement Parks: Perimeter and Area</i>	978-0-7439-0918-1	9.00	R/730	TCM Library
<i>At the Aquarium: Volume</i>	978-0-7439-0919-8	9.00	T/840	TCM Library
Baseball: The Math of the Game (Sports Math)*	978-1-4296-7316-7	47.70	U/1020	Capstone Classroom
Basketball: The Math of the Game (Sports Math) *	978-1-4296-7318-1	47.70	U/910	Capstone Classroom
Discover Congruent and Similar Polygons (Level 1) *	A93949	53.00	530	Benchmark Education
Discover Polygons (Level 1) *	A93901	53.00	330	Benchmark Education
Distance, Area and Volume (Measure It!) *	978-1-4329-3775-1	47.94	T/880	Capstone Classroom
Let's Visit Canada: The Metric System	978-0-8239-7380-4	42.00	O	Rosen Classroom
Math to Build On *	A04216	51.00	R/800	Benchmark Education
Natural Wonders of the World: Converting Distance Measurements to Metric Units	978-1-4042-5120-5	51.00	U	Rosen Classroom
Polygons Around the World (Level 4) *	A93970	56.00	470	Benchmark Education
Polygons Around Town (Level 2) *	A93918	53.00	300	Benchmark Education
Polygons at School (Level 2) *	A93956	53.00	500	Benchmark Education
Polygons in Communities (Level 3) *	A93963	53.00	480	Benchmark Education
Polygons in Puzzles (Level 4) *	A93932	56.00	330	Benchmark Education
Polygons on Maps (Level 3) *	A93925	53.00	340	Benchmark Education
Sports Math *	A9663	51.00	R/900	Benchmark Education
Where We Play Sports: Measuring the Perimeters of Polygons	978-0-8239-7423-8	42.00	O	Rosen Classroom

5.9 The student will identify and describe the diameter, radius, chord, and circumference of a circle.

Basketball: The Math of the Game *	978-1-4296-7318-1	47.70	U/910	Capstone Classroom
Discover Congruent and Similar Polygons (Level 1) *	A93949	53.00	530	Benchmark Education
Discover Polygons (Level 1) *	A93901	53.00	330	Benchmark Education
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5.10 The student will determine an amount of elapsed time in hours and minutes within a 24-hour period.

<i>Hosting the Olympic Summer Games: Elapsed Time</i>	978-0-7439-0902-0	9.00	R/720	TCM Library
Time (Measure It!) *	978-1-4329-3778-2	47.94	S/900	Capstone Classroom

5.11 The student will measure right, acute, obtuse, and straight angles.

**Geometry
Focus: Classification and Subdividing**

5.12 The student will classify
a) angles as right, acute, obtuse, or straight; and
b) triangles as right, acute, obtuse, equilateral, scalene, or isosceles.

<i>Basketball Angles: Understanding Angles *</i>	978-0-7439-0914-3	9.00	S/780	TCM Library
Basketball: The Math of the Game *	978-1-4296-7318-1	47.70	U/910	Capstone Classroom
Discover Congruent and Similar Polygons (Level 1) *	A93949	53.00	530	Benchmark Education
Discover Polygons (Level 1) *	A93901	53.00	330	Benchmark Education
Polygons Around the World (Level 4) *	A93970	56.00	470	Benchmark Education
Polygons Around Town (Level 2) *	A93918	53.00	300	Benchmark Education
Polygons at School (Level 2) *	A93956	53.00	500	Benchmark Education
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Polygons in Puzzles (Level 4) *	A93932	56.00	330	Benchmark Education
Polygons on Maps (Level 3) *	A93925	53.00	340	Benchmark Education
<i>Shaping Our World: 2-D Shapes *</i>	978-0-7439-0881-8	9.00	O/640	TCM Library
Tangram Puzzles: Describing and Comparing Attributes of Plane Geometric Shapes *	978-0-8239-7449-8	42.00	P	Rosen Classroom

5.13 The student, using plane figures (square, rectangle, triangle, parallelogram, rhombus, and trapezoid), will
a) develop definitions of these plane figures; and
b) investigate and describe the results of combining and subdividing plane figures.

<i>Basketball Angles: Understanding Angles *</i>	978-0-7439-0914-3	9.00	S/780	TCM Library
Basketball: The Math of the Game *	978-1-4296-7318-1	47.70	U/910	Capstone Classroom
Discover Congruent and Similar Polygons (Level 1)*	A93949	53.00	530	Benchmark Education
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Discover Polygons (Level 1) *	A93901	53.00	330	Benchmark Education
Number Games Around the World *	A9647	51.00	Q/1000	Benchmark Education
Polygons Around the World (Level 4) *	A93970	56.00	470	Benchmark Education
Polygons Around Town (Level 2) *	A93918	53.00	300	Benchmark Education
Polygons at School (Level 2) *	A93956	53.00	500	Benchmark Education
Polygons in Communities (Level 3) *	A93963	53.00	480	Benchmark Education
Polygons in Puzzles (Level 4) *	A93932	56.00	330	Benchmark Education
Polygons on Maps (Level 3) *	A93925	53.00	340	Benchmark Education
<i>Shaping Our World: 2-D Shapes</i> *	978-0-7439-0881-8	9.00	O/640	TCM Library
Tangram Puzzles: Describing and Comparing Attributes of Plane Geometric Shapes *	978-0-8239-7449-8	42.00	P	Rosen Classroom
The Architecture of Frank Lloyd Wright: Understanding the Concepts of Parallel and Perpendicular	978-1-4042-5145-8	51.00	V	Rosen Classroom

**Probability and Statistics
Focus: Outcomes and Measures of Center**

5.14 The student will make predictions and determine the probability of an outcome by constructing a sample space.

The Amazon and the Sahara: Using Double Line Graphs and Double Bar Graphs	978-0-8239-7376-7	51.00	R	Rosen Classroom
<i>CSI: Analyzing Data</i> *	978-0-7439-0921-1	9.00	R/750	TCM Library
<i>The Jungle Park Case: Analyzing Data</i> *	978-0-7439-0922-8	9.00	N/580	TCM Library
Time (Measure It!) *	978-1-4329-3778-2	47.94	S/900	Capstone Classroom

5.15 The student, given a problem situation, will collect, organize, and interpret data in a variety of forms, using stem-and-leaf plots and line graphs.

American History Adds Up *	A9795	51.00	S/980	Benchmark Education
<i>CSI: Analyzing Data</i> *	978-0-7439-0921-1	9.00	R/750	TCM Library
Sports Math *	A9663	51.00	R/900	Benchmark Education
<i>The Jungle Park Case: Analyzing Data</i> *	978-0-7439-0922-8	9.00	N/580	TCM Library
Time (Measure It!) *	978-1-4329-3778-2	47.94	S/900	Capstone Classroom

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- 5.16 The student will**
- a) describe mean, median, and mode as measures of center;
 - b) describe mean as fair share;
 - c) find the mean, median, mode, and range of a set of data; and
 - d) describe the range of a set of data as a measure of variation.

Climates of the World: Identifying and Comparing Mean, Median and Mode	978-1-4042-5126-7	51.00	T	Rosen Classroom
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**Patterns, Functions, and Algebra
Focus: Equations and Properties**

- 5.17 The student will describe the relationship found in a number pattern and express the relationship.**

Number Games Around the World *	A9647	51.00	Q/1000	Benchmark Education
<i>Our New Car: Ratios and Proportions</i>	<i>978-1-4333-3451-1</i>	<i>9.00</i>	<i>U/880</i>	<i>TCM Library</i>

- 5.18 The student will**
- a) investigate and describe the concept of variable;
 - b) write an open sentence to represent a given mathematical relationship, using a variable;
 - c) model one-step linear equations in one variable, using addition and subtraction; and
 - d) create a problem situation based on a given open sentence, using a single variable.

How the Arabs Invented Algebra: The History of the Concept of Variables	978-0-8239-7388-0	51.00	S	Rosen Classroom
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- 5.19 The student will investigate and recognize the distributive property of multiplication over addition.**

Discover Division (Level 1) *	A93789	53.00	390	Benchmark Education
Discover Multiplication (Level 1) *	A93741	53.00	400	Benchmark Education
Division at the Games (Level 4) *	A93819	56.00	430	Benchmark Education
Division at the Movies (Level 2) *	A93796	53.00	380	Benchmark Education
Division at the Picnic (Level 3) *	A93802	53.00	360	Benchmark Education
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**Standards of Learning for Virginia
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Math Standards Workout

(Covers concepts across all Grade 5 Standards of Learning)

Features: Detailed Table of Contents, Introductory and Epilogue Material, Graphic Organizers, Instructional Guide, Resource for visual learners, Glossary, recommended websites, Further Reading.

Making Connections: 50 Math Super Puzzles (make connection between and among different kinds of math skills and typed of mathematical reasoning) (6-pack)	978-1-4488-6687-8	60.00	V	Rosen Classroom
Mental Math: 50 Math Super Puzzles (help improve mental math problem-solving skills) (6-pack)	978-1-4488-6690-8	60.00	V	Rosen Classroom
Problem Solving: 50 Math Super Puzzles (enhance development of math problem-solving skills) (6-pack)	978-1-4488-6688-5	60.00	V	Rosen Classroom
Shapes and Symmetry: 50 Math Super Puzzles (improve ability to identify, analyze and construct various shapes and symmetries) (6-pack)	978-1-4488-6689-2	60.00	V	Rosen Classroom
Symbols and Algebra: 50 Math Super Puzzles (solve math problems that involve algebra and other symbol systems) (6-pack)	978-1-4488-6691-5	60.00	V	Rosen Classroom
Single copy set (one copy each of six titles)	978-1-4488-7272-5	50.00	V	Rosen Classroom
Classroom Collection (six copies each of six titles)	978-1-4488-7271-8	300.00	V	Rosen Classroom

*Title in multiple strands

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