



Correlation

Standards of Learning for Virginia

Mathematics

Grade Three

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

O'Brien Associates
2512 Grenoble Road
Richmond, VA 23294
Local 804-346-2424
Toll-free 800-340-7323
Fax 804-747-1378
email: info@obrienassociates.com

April 2016

**Virginia Standards of Learning
Mathematics
Grade Three**

**Number and Number Sense
Focus: Place Value and Fractions**

3.1 The student will

- a) read and write six-digit numerals and identify the place value and value of each digit;
- b) round whole numbers, 9,999 or less, to the nearest ten, hundred, and thousand; and
- c) compare two whole numbers between 0 and 9,999, using symbols ($>$, $<$, or $=$) and words (*greater than, less than, or equal to*).

Compare and Order Numbers to 1,000 (number and operations) (six-pack)	Y03468	38.00	H/640	Benchmark Education
<i>Compare and Order Numbers to 1,000 (number and operations) (big book)</i>	<i>Y03444</i>	<i>38.00</i>	<i>H/640</i>	<i>Benchmark Education</i>
<i>Same, More or Less? (big book)</i>	<i>Y03431</i>	<i>38.00</i>	<i>540</i>	<i>Benchmark Education</i>
Same, More or Less? (number and operations) (six-pack)	Y03455	38.00	540	Benchmark Education

3.2 The student will recognize and use the inverse relationships between addition/subtraction and multiplication/division to complete basic fact sentences. The student will use these relationships to solve problems.

Addition and Subtraction (number and operations and algebra) (six-pack)	Y03463	38.00	560	Benchmark Education
<i>Addition and Subtraction (number and operations and algebra) (big book)</i>	<i>Y03439</i>	<i>38.00</i>	<i>560</i>	<i>Benchmark Education</i>
Divided By	978-1-4296-8083-7	35.94	M/720	Capstone Classroom
Magic Squares: Learning the Inverse Relationship Between Addition and Subtraction	978-0-8239-7435-1	36.00	H	Rosen Classroom
Subtraction Strategies (number and operations and algebra) (six-pack)	Y03464	38.00	490	Benchmark Education
<i>Subtraction Strategies (number and operations and algebra) (big book)</i>	<i>Y03440</i>	<i>38.00</i>	<i>490</i>	<i>Benchmark Education</i>

3.3 The student will

- a) name and write fractions (including mixed numbers) represented by a model;
- b) model fractions (including mixed numbers) and write the fractions' names; and
- c) compare fractions having like and unlike denominators, using words and symbols ($>$, $<$, or $=$).

At the Football Game: Learning the Symbols $<$, $>$ and $=$	978-0-8239-7384-2	36.00	I	Rosen Classroom
Blake the Baker: Develop Understanding of Fractions and Numbers	978-1-4777-4931-9	48.00	N	Rosen Classroom
<i>Title</i>	<i>ISBN/Code No.</i>	<i>Six-pack price</i>	<i>GR Level</i>	<i>Publisher</i>

Titles in italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

Civil War Recipes: Adding and Subtracting Simple Fractions*	978-0-8239-7424-5	42.00	P	Rosen 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
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
Healthy Fractions: Develop Understanding of Fractions and Numbers	978-1-4777-4919-7	48.00	N	Rosen Classroom
Saving Endangered Animals: Develop Understanding of Fractions and Numbers	978-1-4777-4614-1	48.00	N	Rosen Classroom

**Computation and Estimation
Focus: Computation and Fraction Operations**

3.4 The student will estimate solutions to and solve single-step and multistep problems involving the sum or difference of two whole numbers, each 9,999 or less, with or without regrouping.

A Shopping Trip: Learning to Add Dollars and Cents Up to \$10.00 Without Regrouping	978-0-8239-7428-3	36.00	I	Rosen Classroom
Animal Rescue: Represent and Solve Problems Involving Addition	978-1-4777-4631-8	48.00	I	Rosen Classroom
Claire's Clothing Drive: Represent and Solve Problems Involving Subtraction	978-1-4777-4634-9	48.00	I	Rosen Classroom
Discover Estimation (Level 1) *	Y01330	53.00	330	Benchmark Education
Discover Multiplication of Multi-digit Numbers (Level 1)	Y01326	53.00	180	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
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 Concert (Level 3) *	Y01328	53.00	400	Benchmark Education
Rescue! Animals in Need: Represent and Solve Problems Involving Addition	978-1-4777-4871-8	48.00	I	Rosen Classroom
Traveling Around the United States: Learning to Add 2 Three-Digit Numbers Without Regrouping	978-0-8239-7427-6	36.00	H	Rosen Classroom
Working at the Post Office: Learning to Subtract 2 Three-Digit Numbers Without Regrouping	978-0-8239-7339-2	36.00	I	Rosen Classroom

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

Titles in italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

3.5 The student will recall multiplication facts through the twelves table, and the corresponding division facts.

Danielle’s Dance Class: Foundations for Multiplication *	978-1-4777-4646-2	48.00	I	Rosen Classroom
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
How Many Legs? Learning to Multiply Using Repeated Action	978-0-8239-7457-3	36.00	J	Rosen Classroom
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
Multiply to Make Party Plans	978-1-4339-0974-0	35.70	N	Gareth Stevens Cl
Using Division Facts in the Garden	978-1-4339-0975-7	35.70	M	Gareth Stevens Cl

3.6 The student will represent multiplication and division, using area, set, and number line models, and create and solve problems that involve multiplication of two whole numbers, one factor 99 or less and the second factor 5 or less.

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: Solving Addition and Subtraction Problems Using Timelines	978-0-8239-7426-9	51.00	R	Rosen Classroom
<i>Getting Ready to Camp: Introducing Division</i>	<i>978-0-7439-0865-8</i>	<i>9.00</i>	<i>O/610</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>
--------------	----------------------	-----------------------	-----------------	------------------

Titles In italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

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

3.7 The student will add and subtract proper fractions having like denominators of 12 or less.

Civil War Recipes: Adding and Subtracting Simple Fractions *	978-0-8239-7424-5	42.00	P	Rosen Classroom
--	-------------------	-------	---	-----------------

Measurement

Focus: U.S. Customary and Metric Units, Area and Perimeter, and Time

3.8 The student will determine, by counting, the value of a collection of bills and coins whose total value is \$5.00 or less, compare the value of the bills and coins, and make change.

Spending Money (Money and Banks)	978-1-4339-3391-2	35.70	M	Gareth Stevens Cl
The Price of a Pioneer Journey: Adding and Subtracting Two-Digit Amounts	978-0-8239-7434-4	36.00	K	Rosen Classroom
Using Money on a Shopping Trip	978-1-4339-0967-2	35.70	K	Gareth Stevens Cl

3.9 The student will estimate and use U.S. Customary and metric units to measure

- a) length to the nearest $\frac{1}{2}$ inch, inch, foot, yard, centimeter, and meter;
- b) liquid volume in cups, pints, quarts, gallons, and liters;
- c) weight/mass in ounces, pounds, grams, and kilograms; and
- d) area and perimeter.

<i>All About Sharks: Units of Measure</i>	978-0-7439-0904-4	9.00	S/760	TCM Library
<i>Amusement Parks: Perimeter and Area</i>	978-0-7439-0918-1	9.00	R/730	TCM Library
Area at the Park (Level 2)	Y01323	53.00	300	Benchmark Education
Area in the City (Level 4)	Y01325	56.00	420	Benchmark Education
Area on the Ranch (Level 3)	Y01324	53.00	320	Benchmark Education
At Sea on a Viking Ship: Solving Problems of Length and Weight Using the Four Math Operations	978-0-8239-7450-4	42.00	N	Rosen Classroom
<i>At the Aquarium: Volume</i>	978-0-7439-0919-8	9.00	T/840	TCM Library
Discover Area (Level 1)	Y01322	53.00	300	Benchmark Education
Discover Perimeter (Level 1)	Y01318	53.00	260	Benchmark Education
Metric Math *	A04143	49.00	P/820	Benchmark Education
Perimeter at the Arena (Level 4)	Y01321	56.00	320	Benchmark Education
Perimeter at the Zoo (Level 3)	Y01320	53.00	300	Benchmark Education

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

Titles in italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

Perimeter in the Classroom (Level 2)	Y01319	53.00	290	Benchmark Education
<i>World Markets: Standard Measurement</i>	<i>978-0-7439-0873-3</i>	<i>9.00</i>	<i>O/610</i>	<i>TCM Library</i>

3.10 The student will

- a) **measure the distance around a polygon in order to determine perimeter; and**
- b) **count the number of square units needed to cover a given surface in order to determine area.**

Building a Tree Fort: Measure Lengths in Standard Units	978-1-4777-4780-3	48.00	K	Rosen Classroom
Building Washington D.C.: Measuring the Area of Rectangular Shapes	978-0-8239-7375-0	51.00	P	Rosen Classroom
Discover Congruent and Similar Polygons (Level 1)	A93949	53.00	530	Benchmark Education
Discover Polygons (Level 1)	A93901	53.00	330	Benchmark Education
Fierce Freshwater Fish: Measure Lengths in Standard Units	978-1-4777-4805-3	48.00	K	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
Where We Play Sports: Measuring the Perimeters of Polygons	978-0-8239-7423-8	42.00	O	Rosen Classroom

3.11 The student will

- a) **tell time to the nearest minute, using analog and digital clocks; and**
- b) **determine elapsed time in one-hour increments over a 12-hour period.**

<i>Hosting the Olympic Summer Games: Elapsed Time</i>	<i>978-0-7439-0902-0</i>	<i>9.00</i>	<i>R/720</i>	<i>TCM Library</i>
---	--------------------------	-------------	--------------	--------------------

3.12 The student will identify equivalent periods of time, including relationships among days, months, and years, as well as minutes and hours.

3.13 The student will read temperature to the nearest degree from a Celsius thermometer and a Fahrenheit thermometer. Real thermometers and physical models of thermometers will be used.

Metric Math *	A04143	49.00	P/820	Benchmark Education
---------------	--------	-------	-------	---------------------

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

Titles in italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

Geometry

Focus: Properties and Congruence Characteristics of Plane and Solid Figures

- 3.14** The student will identify, describe, compare, and contrast characteristics of plane and solid geometric figures (circle, square, rectangle, triangle, cube, rectangular prism, square pyramid, sphere, cone, and cylinder) by identifying relevant characteristics, including the number of angles, vertices, and edges, and the number and shape of faces, using concrete models.

<i>Shapes in Our World: 3-D Shapes</i>	978-0-7439-0897-9	9.00	N/580	TCM Library
Tangram Puzzles: Describing and Comparing Attributes of Plane Geometric Shapes *	978-0-8239-7449-8	42.00	P	Rosen Classroom

- 3.15** The student will identify and draw representations of points, line segments, rays, angles, and lines.

<i>Basketball Angles: Understanding Angles *</i>	978-0-7439-0914-3	9.00	S/780	TCM Library
Tangram Puzzles: Describing and Comparing Attributes of Plane Geometric Shapes *	978-0-8239-7449-8	42.00	P	Rosen Classroom

- 3.16** The student will identify and describe congruent and non-congruent plane figures.

<i>Basketball Angles: Understanding Angles *</i>	978-0-7439-0914-3	9.00	S/780	TCM Library
--	-------------------	------	-------	-------------

Probability and Statistics

Focus: Applications of Data and Chance

- 3.17** The student will
- a) collect and organize data, using observations, measurements, surveys, or experiments;
 - b) construct a line plot, a picture graph, or a bar graph to represent the data; and
 - c) read and interpret the data represented in line plots, bar graphs, and picture graphs and write a sentence analyzing the data.

<i>CSI: Analyzing Data *</i>	978-0-7439-0921-1	9.00	R/750	TCM Library
Heads or Tails? Exploring Probability Through Games *	9780-8239-7422-1	42.00	N	Rosen Classroom
Probability *	A1249	46.00	M/770	Benchmark Education
The Amazon and the Sahara: Using Double Line Graphs and Double Bar Graphs	978-0-8239-7376-7	51.00	R	Rosen Classroom

- 3.18** The student will investigate and describe the concept of probability as chance and list possible results of a given situation.

<i>CSI: Analyzing Data *</i>	978-0-7439-0921-1	9.00	R/750	TCM Library
Heads or Tails? Exploring Probability Through Games *	9780-8239-7422-1	42.00	N	Rosen Classroom
Probability *	A1249	46.00	M/770	Benchmark Education

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

Titles in italics are single copy; order six to make a six-pack.

**Virginia Standards of Learning
Mathematics
Grade Three**

**Patterns, Functions, and Algebra
Focus: Patterns and Property Concepts**

3.19 The student will recognize and describe a variety of patterns formed using numbers, tables, and pictures, and extend the patterns, using the same or different forms.

<i>Patterns Around Us: Recognizing Patterns</i>	978-0-7439-0895-5	9.00	O/620	TCM Library
---	-------------------	------	-------	-------------

3.20 The student will
a) investigate the identity and the commutative properties for addition and multiplication; and
b) identify examples of the identity and commutative properties for addition and multiplication.

Danielle’s Dance Class: Foundations for Multiplication *	978-1-4777-4646-2	48.00	I	Rosen Classroom
--	-------------------	-------	---	-----------------

*Title in multiple strands

Price and availability subject to change without notice.

**For questions about this correlation,
to preview books or to request a
price quote, please contact:**

O’Brien Associates
2512 Grenoble Road
Richmond, VA 23294
Telephone 1-800-340-7323
Fax 1-804-747-1375
email: info@obrienassociates.com

April 2016

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

Titles In italics are single copy; order six to make a six-pack.