

***Great Source Education***

# **Math on Call**

© 2006

**correlated to**

**Mississippi Mathematics Framework  
Grade 7**

## **Explanation Of Correlation**

The following document is a correlation of **Great Source Education, *Math on Call*** to the Mississippi Mathematics Framework. The format of this correlation follows the same basic format established by the Mathematics Framework, modified to accommodate the addition of page references. The correlation provides a cross-reference between the skills in the Mathematics Framework and representative page numbers where those skills are taught or assessed.

The references contained in this correlation reflect Great Source Education's interpretation of the Mathematic objectives outlined in the Mississippi Mathematics Framework.

## **Key to References**

SE     *Student's Edition*

**Great Source Education**  
**Math on Call © 2006**  
 correlated to

**Mississippi Mathematics Framework (2007)**  
**Grade 7**

Standard	Descriptor	Page Citations
<b>Number and Operations</b>		
<b>1. Apply concepts of rational numbers and perform basic operations emphasizing the concepts of ratio, proportion, and percent with and without the use of calculators.</b>		
a.	Use the order of operations to simplify and/or evaluate whole numbers (including exponents and grouping symbols). (DOK 1)	SE: 207-210  Resource Book: 58-59  Practice Book A: 44
b.	Solve problems involving addition, subtraction, multiplication, and division of rational numbers. Express answers in simplest form. (DOK 2)	SE: 96-99, 101-109, 112-113, 115, 125-129, 131-137, 140-142, 152-155, 158-165, 167, 169-171, 179-181, 184-194, 198-199  Resource Book: 32-33  Practice Book A: 10, 39, 56, 59 Practice Book B: 56-57, 60-61, 76-79
c.	Convert among decimals, fractions, mixed numbers, and percents. (DOK 1)	SE: 22, 24, 26, 33, 43-44, 442  Resource Book: 24-25  Practice Book A: 4-5, 25
d.	Evaluate and estimate powers and square roots of real numbers. (DOK 2)	SE: 6, 15, 71-75, 76-79, 80-84  Resource Book: 36-37, 48-49

Standard	Descriptor	Page Citations
e.	Explain the relationship between standard form and scientific notation. (DOK 1)	SE: 5, 14-16
f.	Multiply and divide numbers written in scientific notation. (DOK 1)	<i>This standard is outside the scope of Math on Call</i>
g.	Solve real-life problems involving unit price, unit rate, sales price, sales tax, discount, simple interest, commission, and rates of commission. (DOK 1)	SE: 435, 438-439, 443, 448-449, 451 Resource Book: 20-21, 102-103, 104-105 Practice Book A: 94
h.	Solve contextual problems requiring the comparison, ordering, and application of integers. (DOK 2)	SE: 7, 9 Practice Book A: 75
i.	Develop a logical argument to demonstrate the 'denseness' of rational numbers. (DOK 3)	SE: 230

Standard	Descriptor	Page Citations
<b>Algebra</b>		
<b>2. Develop and apply the basic operations of rational numbers to algebraic and numerical tasks. Create and apply algebraic expressions and equations.</b>		
a.	Recognize, describe, and state the rule of generalized numerical and geometric patterns using tables, graphs, words, and symbols. (DOK 2)	SE: 544-549 Resource Book: 36-37
b.	Solve equations that represent algebraic and real-world problems using multiple methods including the real number properties. (DOK 1)	SE: 227-229, 241, 255 Resource Book: 68-69
c.	Formulate algebraic expressions, equations, and inequalities to reflect a given situation and vice versa. (DOK 2)	SE: 204-205, 241, 244, 257-258 Resource Book: 56-57, 68-69 Practice Book A: 12-13 Practice Book B: 13, 24-25, 98
d.	Complete a function table based on a given rule and vice versa. (DOK 1)	SE: 236, 243 Resource Book: 54-55, 61

Standard	Descriptor	Page Citations
d.	Identify the following properties using variables and apply them in solving problems: (DOK 1)	
•	Zero property of multiplication	SE: 225-226
•	Inverse properties of addition/subtraction and multiplication/division	SE: 130, 183 <i>Opportunity to Address:</i> SE: 224  Resource Book: 26-27  Practice Book A: 44
•	Commutative and associative properties of addition and multiplication	SE: 212-215, 216-218  Practice Book A: 44-45
•	Identity properties of addition and multiplication	SE: 222-223  Resource Book: 58-59
•	Distributive properties of multiplication over addition and subtraction	SE: 219-221  Resource Book: 32-33
f.	Predict the shape of a graph from a function table. (DOK 2)	<i>This standard is outside the scope of Math on Call</i>

Standard	Descriptor	Page Citations
<b>Geometry</b>		
<b>3. Apply geometric relationships of angles, two- and three-dimensional shapes, and transformations.</b>		
a.	Classify and compare three-dimensional shapes using their properties. (DOK 1)	SE: 394, 399, 403-404, 409, 414, 419 Practice Book A:
b.	Construct two-dimensional representations of three-dimensional objects. (DOK 2)	SE: 395, 406, 411, 416 Resource Book: 92-93
c.	Justify the congruency or symmetry of two figures. (DOK 2)	SE: 381-383, 389
d.	Perform transformations (rigid and non-rigid motions) on two-dimensional figures using the coordinate plane. (DOK 2)	SE: 384-386, 388
e.	Create an argument using the Pythagorean Theorem principles to show that a triangle is a right triangle. (DOK 2)	SE: 359 Resource Book: 64-65 Practice Book B: 44, 47, 103
f.	Construct and classify angles. (DOK 2)	SE: 331 Resource Book: 88-89 Practice Book A: 42, 64 Practice Book B: 40, 48

Standard	Descriptor	Page Citations
<b>Measurement</b>		
<b>4. Apply appropriate techniques, tools, and formulas to determine measurements with a focus on real-world problems. Recognize that formulas in mathematics are generalized statements about rules, equations, principles, or other logical mathematical relationships.</b>		
a.	Convert from one unit to another, perform basic operations, and solve real-world problems using standard (English and metric) measurements within the same system. (DOK 2)	SE: 172, 355, 357, 369, 398, 535-537 Practice Book A: 11, 63-64 Practice Book B: 6, 32-33, 43, 51, 75
b.	Use formulas and strategies, such as decomposition, to compute the perimeter and area of triangles, parallelograms, trapezoids, the circumference and area of circles, and find the area of more complex shapes. (DOK 2)	SE: 346-347, 354, 356, 365-368, 372-373, 375 Resource Book: 66-67, 84-85, 90-91 Practice Book A: 11, 60, 69, 77, 87 Practice Book B: 10, 38, 40, 42, 46, 49, 63
c.	Develop and justify geometric formulas for volume and surface area of cylinders, pyramids, and prisms. (DOK 3)	SE: 396-397, 401-402, 407-408, 412-413 Resource Book: 66-67, 90-91, 94-95 Practice Book A: 31, 77 Practice Book B: 39, 51, 65, 85
d.	Solve problems involving scale factors using ratios and proportions. (DOK 2)	SE: 434-436 Resource Book: 62-63, 96-97, 100-101 Practice Book A: 50, 56, 65 Practice Book B: 61, 64, 83

Standard	Descriptor	Page Citations
<b>Data Analysis &amp; Probability</b>		
<b>5. Organize and interpret data. Analyze data to make predictions.</b>		
a.	Use proportions, estimates, and percentages to construct, interpret, and make predictions about a population based on histograms or circle graph representations of data from a sample. (DOK 2)	SE: 295-296 Resource Book: 72-73 Practice Book A: 20-21, 23, 27 Practice Book B: 20-21, 27
b.	Determine how outliers affect mean, median, mode, or range. (DOK 2)	SE: 283 Practice Book A: 22-23
c.	Construct and interpret line graphs, frequency tables, circle graphs, box-and-whisker plots, and scatter plots to generalize trends from given data. (DOK 2)	SE: 286-289, 296-299, 302, 305, 310 Resource Book: 72-73, 76-77, 80-81 Practice Book A: 24-25, 41 Practice Book B: 74-75
d.	Determine probabilities through experimentation, simulation, or calculation. (Note: Make and test conjectures and predictions by calculating the probability of an event.) (DOK 2)	SE: 463-469 Resource Book: 110-113, 116-117 Practice Book A: 38 Practice Book B: 96