

***Great Source Education***

# **Math at Hand**

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correlated to

**Mississippi Mathematics Framework  
Grade 5**

## **Explanation Of Correlation**

The following document is a correlation of **Great Source Education, *Math at Hand*** 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*

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**Mississippi Mathematics Framework (2007)**  
**Grade 5**

Standard	Descriptor	Page Citations
<b>Number and Operations</b>		
<b>1. Analyze relationships among numbers and the four basic operations, compute fluently, and make reasonable estimates.</b>		
a.	Compare and order integers, decimals to the nearest thousandths, like and unlike fractions, and mixed numbers using $>$ , $<$ , and $=$ . (DOK 1)	SE: 8-10, 16-18, 38-42, 47-48 Resource Book: 10-11, 15-19 Practice Book A: 15, 63, 66, 77 Practice Book B: 14-15, 66, 76-77
b.	Compose and decompose seven-digit numbers and decimals through thousandths in word, standard, and expanded forms. (DOK 1)	SE: 6-7, 13 Resource Book: 10 Practice Book A: 6, 23 Practice Book B: 7
c.	Identify factors and multiples of whole numbers. (DOK 1)	SE: 50-52, 56-61 Resource Book: 24-25
d.	Model and distinguish between prime and composite numbers. (DOK 1)	SE: 53-55 Resource Book: 24

Standard	Descriptor	Page Citations
e.	Model and identify equivalent fractions including conversion of improper fractions to mixed numbers and vice versa. (DOK 1)	SE: 34-35  Resource Book: 15  Practice Book A: 100
f.	Add, subtract, multiply, and divide (with and without remainders) using non-negative rational numbers. (DOK 1)	SE: 118-155, 157-176  Resource Book: 44-45, 48-49, 52-53, 56-57, 62-63, 66-67, 70-71, 74-75  Practice Book A: 11, 13, 39-41, 43-45, 48-49, 58-59, 62-65, 78-83, 85, 99-101, 103-105  Practice Book B: 38-43, 46-47, 49, 60-65, 68-69, 78-79, 96-97, 100-101
g.	Estimate sums, differences, products, and quotients of non-negative rational numbers to include strategies such as front-end rounding, benchmark numbers, compatible numbers, and rounding. (DOK 2)	SE: 100-114  Resource Book: 38-39  Practice Book A: 56, 84-87, 94, 97, 99 Practice Book B: 3, 51, 62, 85-87

Standard	Descriptor	Page Citations
<b>Algebra</b>		
<b>2. Explain and analyze number relationships and functions using algebraic symbols, and demonstrate an understanding of the properties of the basic operations.</b>		
a.	Determine the value of variables in equations and inequalities, justifying the process. (DOK 2)	SE: 242-243 Resource Book: 106 Practice Book B: 103
b.	Devise a rule for an input/output function table, describing it in words and symbols. (DOK 2)	SE: 244-245 Resource Book: 107
c.	Apply the properties of basic operations to solve problems: (DOK 2)	
•	Zero property of multiplication	SE: 230 Resource Book: 102
•	Commutative properties of addition and multiplication	SE: 216-219 Resource Book: 101
•	Associative properties of addition and multiplication	SE: 220-223 Resource Book: 101
•	Distributive properties of multiplication over addition and subtraction	SE: 224-226 Resource Book: 101
•	Identity properties of addition and multiplication	SE: 227-228 Resource Book: 102
d.	Apply inverse operations of addition/subtraction and multiplication/division to problem-solving situations. (DOK 2)	SE: 128, 145 <i>Opportunity to Address:</i> SE: 229 Resource Book: 102

Standard	Descriptor	Page Citations
<b>Geometry</b>		
<b>3. Develop mathematical arguments about geometric relationships and describe spatial relationships using coordinate geometry.</b>		
a.	Analyze and describe the characteristics of symmetry relative to classes of polygons (parallelograms, triangles, etc.). (DOK 2)	SE: 380 Resource Book: 171 Practice Book A: 4
b.	Explain the relationships between coordinates in each quadrant of the coordinate plane. (DOK 2)	SE: 265-266
c.	Describe the characteristics, including the relationship of the pre-image and the image, of each type of transformation (rotations [turns], reflections [flips], and translations [slides]) of two-dimensional figures. (DOK 2)	SE: 375-379 Resource Book: 171
d.	Construct and analyze two- and three-dimensional shapes to solve problems involving congruence and symmetry. (DOK 3)	SE: 372, 374 Resource Book: 171 Practice Book A: 64
e.	Label ordered pairs in the coordinate plane. (DOK 1)	SE: 265 Resource Book: 107 Practice Book A: 76

Standard	Descriptor	Page Citations
<b>Measurement</b>		
<b>4. Develop concepts and apply appropriate tools and techniques to determine units of measure.</b>		
a.	Estimate and measure length to nearest millimeter in the metric system and one-sixteenth inch in the English system. (DOK 2)	SE: 294 Resource Book: 130-131 Practice Book A: 24
b.	Convert units within a given measurement system to include length, weight/mass, and volume. (DOK 1)	SE: 326-327 Resource Book: 153 Practice Book A: 41, 44, 49 Practice Book B: 63, 80, 83, 95
c.	Develop, compare, and use formulas to estimate and calculate the perimeter and area of rectangles, triangles, and parallelograms. (DOK 2)	SE: 295-297, 299-303 Resource Book: 130-131, 134-135 Practice Book A: 5, 13, 31, 46, 67, 83-84 Practice Book B: 3, 85
d.	Select and apply appropriate units for measuring length, mass, volume, and temperature in the standard (English and metric) systems. (DOK 1)	SE: 294, 309, 318, 321 Resource Book: 130-131, 138, 144, 147 Practice Book A: 3, 11, 25, 83, 96-97 Practice Book B: 5, 12, 29

Standard	Descriptor	Page Citations
<b>Data Analysis &amp; Probability</b>		
<b>5. Interpret and analyze data and make predictions.</b>		
a.	Use the mean, median, mode, and range to analyze a data set. (DOK 2)	SE: 257, 259-262 Resource Book: 115-116 Practice Book A: 28, 63, 98 Practice Book B: 3, 23, 40, 47-48
b.	Compare data and interpret quantities represented on tables and graphs, including line graphs, stem-and-leaf plots, histograms, and box-and-whisker plots to make predictions, and solve problems based on the information. (DOK 2)	SE: 272-276, 278-279, 284 Resource Book: 120-121 Practice Book A: 22, 24, 26-27, 75 Practice Book B: 20, 26-27, 30