

***Great Source Education***

# **Math at Hand**

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**correlated to**

**Mississippi Mathematics Framework  
Grade 6**

## **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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correlated to

**Mississippi Mathematics Framework (2007)**  
**Grade 6**

Standard	Descriptor	Page Citations
<b>Number and Operations</b>		
<b>1. Analyze numbers using place value and prime factorization. Solve problems involving basic operations of rational numbers.</b>		
a.	Compare and order rational numbers using symbols (<, >, and =) and a number line. (DOK 1)	SE: 8-10, 16-18, 38-42 Resource Book: 10-11, 15-19 Practice Book A: 15, 63, 66, 77 Practice Book B: 14-15, 66, 76-77
b.	Use estimation strategies to determine the reasonableness of results in a variety of situations including rational number computations. (DOK 2)	SE: 413 Resource Book: 38-39, 184 Practice Book A: 56, 85-87, 99 Practice Book B: 51
c.	Determine the Greatest Common Factor (GCF) and Least Common Multiple (LCM) of two numbers. (DOK 2)	SE: 58, 61 Resource Book: 25 Practice Book B: 5
d.	Compute using basic operations with fractions and mixed numbers. Express answers in the simplest form. (DOK 1)	SE: 37, 157-176 Resource Book: 15, 62-63, 66-67, 70-71, 74-75, 78-79 Practice Book A: 11, 13, 61, 65-66, 101 Practice Book B: 32, 41, 45, 47, 59, 61, 64, 68, 83-85, 99

Standard	Descriptor	Page Citations
e.	Solve problems by dividing whole and decimal numbers by decimals and interpret the quotient and remainder within the problem context. (DOK 2)	SE: 155 Resource Book: 57 Practice Book A: 58 Practice Book B: 101
f.	Explain the relationship(s) among fractions, decimals, and percents and model and represent a specific quantity in multiple ways. (DOK 2)	SE: 19-20, 43-44, 483 Resource Book: 11, 16 Practice Book A: 60, 63, 68, 87 Practice Book B: 45, 57, 75, 84
g.	Model addition and subtraction of integers with physical materials and the number line. (DOK 2)	SE: 201-205, 206-209 Resource Book: 9
h.	Solve problems by finding the percentage of a number including percentages greater than 100 and less than 1. (DOK 2)	SE: 192-197 Resource Book: 87-89
i.	Multiply four-digit numbers by two-digit numbers (including whole numbers and decimals). (DOK 1)	<i>Opportunity to Address:</i> SE: 139-140 Resource Book: 52-53 Practice Book B: 97
j.	Explain the meaning of multiplication and division of rational numbers. (DOK 2)	SE: 136-137, 142, 144, 146, 153, 167, 171 Resource Book: 53, 56-57 Practice Book A: 40-41, 43
k.	Explain the meaning and relationship between absolute value and opposites. (DOK 2)	SE: 229 Resource Book: 19 Practice Book B: 3

Standard	Descriptor	Page Citations
<b>Algebra</b>		
<b>2. Use algebraic functions, patterns, and language across a variety of contexts.</b>		
a.	Solve simple equations using guess-and-check, diagrams, properties, or inspection, explaining the process used. (DOK 2)	SE: 242-243 Resource Book: 106
b.	Complete a function table based on a given rule. (DOK 2)	SE: 244 Resource Book: 107
c.	Formulate algebraic expressions, equations, and inequalities to reflect a given situation. (DOK 2)	SE: 238, 241 Resource Book: 105 Practice Book A: 44-45 Practice Book B: 2-3
d.	State the following properties using variables and apply them in solving problems: (DOK 1)	
•	Zero property of multiplication	SE: 230 Resource Book: 102
•	Inverse properties of addition/subtraction and multiplication/division	SE: 128, 145 <i>Opportunity to Address:</i> SE: 229 Resource Book: 102
•	Commutative and associative properties of addition and multiplication	SE: 216-223 Resource Book: 101

Standard	Descriptor	Page Citations
•	Identity properties of addition and multiplication	SE: 227-228 Resource Book: 102
•	Distributive properties of multiplication over addition and subtraction	SE: 224-226 Resource Book: 101
e.	Describe a rule for a function table using words, symbols, and points on a graph and vice versa. (DOK 2)	SE: 244-245 Resource Book: 107
<b>Geometry</b>		
<b>3. Analyze geometric relationships of lines, angles, two- and three-dimensional shapes, and transformations.</b>		
a.	Compare, classify, and construct transformations (reflections, translations, and rotations). (DOK 3)	SE: 375-379 Resource Book: 171
b.	Construct three-dimensional figures using manipulatives and generalize the relationships among vertices, faces, and edges (such as Euler's Formula). (DOK 3)	<i>This standard is outside the scope of Math at Hand</i>
c.	Draw, label, and classify polygons to include regular and irregular shapes. Identify congruent and symmetrical figures. (DOK 1)	SE: 357-358, 361-363, 364-366, 372, 374, 380 Resource Book: 168-169, 171 Practice Book A: 4, 12, 64 Practice Book B: 5
d.	Identify, estimate, and compare right, acute, and obtuse angles. (DOK 1)	SE: 347, 361 Resource Book: 164 Practice Book A: 12 Practice Book B: 5
e.	Explain the relationships between corresponding parts of the pre-image and image of a dilation. (DOK 2)	<i>This standard is outside the scope of Math at Hand</i>

Standard	Descriptor	Page Citations
<b>Measurement</b>		
<b>4. Apply geometric formulas and standard (English and metric) units of measurement in mathematical and real-life situations.</b>		
a.	Convert units within a given measurement system to solve problems. (DOK 1)	SE: 326-327 Resource Book: 153 Practice Book A: 41, 44 Practice Book B: 29, 63, 75, 95, 105
b.	Calculate the perimeter and area of regular and irregular shapes using a variety of methods. (DOK 2)	SE: 294-297, 299-305 Resource Book: 130-131, 134-135 Practice Book A: 13, 47, 67, 83 Practice Book B: 85
c.	Determine the radius, diameter, and circumference of a circle. (DOK 1)	SE: 298 Resource Book: 131 Practice Book A: 60 Practice Book B: 67
d.	Use scale factors to perform dilations and to solve ratio and proportion problems. (DOK 2)	SE: 178, 184 Resource Book: 80-81, 83-84 Practice Book A: 7, 83 Practice Book B: 103
e.	Predict and calculate the volume of prisms. (DOK 2)	SE: 310 Resource Book: 138 Practice Book A: 3, 11, 83, 96-97 Practice Book B: 12, 62

Standard	Descriptor	Page Citations
f.	Apply techniques and tools to accurately find length, area, and angle measures to appropriate levels of precision. (DOK 1)	SE: 465-466 Practice Book A: 31, 48-49, 84 Practice Book B: 104
g.	Explain the relationship of circumference of a circle to its diameter, linking to $\pi$ . (DOK 1)	SE: 367
<b>Data Analysis &amp; Probability</b>		
<b>5. Organize, interpret, analyze, and display data to predict trends.</b>		
a.	Construct, interpret, and explain line graphs, double bar graphs, frequency plots, stem-and-leaf plots, histograms, and box-and-whisker plots. (DOK 2)	SE: 268, 274, 278-279, 284 Resource Book: 112, 120-121, 128-129 Practice Book A: 74-75 Practice Book B: 20-21, 30
b.	Determine how changes in data affect mean, median, mode, and range. (DOK 2)	SE: 257, 259-262 Resource Book: 115-116 Practice Book A: 28, 99 Practice Book B: 23, 47-49, 86-87
c.	Predict trends based on graphical representation. (DOK 3)	<i>This standard is outside the scope of Math at Hand</i>