

**Madison Public Schools  
Grade 4 Marking Period Mathematics Benchmarks**

<b>Operations and Algebraic Thinking</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
<b>Demonstrates fluency and accuracy with multiplication and division math facts</b>	<ul style="list-style-type: none"> <li>Fluently multiplies within 100 (60 facts in 3 minutes)</li> </ul>	<ul style="list-style-type: none"> <li>Fluently multiplies and divides within 100 (80 facts in 4 minutes)</li> </ul>	<ul style="list-style-type: none"> <li>Fluently multiplies and divides within 100 (100 facts in 5 minutes)</li> </ul>
<b>Uses the four operations with whole numbers to solve word problems</b>	<ul style="list-style-type: none"> <li>Solves word problems involving all four operations as presented</li> </ul>	<ul style="list-style-type: none"> <li>Solves multi-step word problems involving all four operations including variables and interpreting remainders</li> </ul>	<ul style="list-style-type: none"> <li>Accurately solves multi-step word problems involving all four operations including variables and interpreting remainders</li> </ul>
<b>Identifies factor pairs and multiples for all whole numbers to 100</b>	<ul style="list-style-type: none"> <li>Identifies all factor pairs and multiples for all whole numbers to 100; determines prime and composite</li> </ul>	<ul style="list-style-type: none"> <li>Uses all factor pairs and multiples for all whole numbers to 100; determines prime and composite</li> </ul>	<ul style="list-style-type: none"> <li>Accurately identifies all factor pairs and multiples for all whole numbers to 100; determines prime and composite</li> </ul>
<b>Numbers and Operations Base Ten</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
<b>Performs operations with multi-digit whole numbers</b>	<ul style="list-style-type: none"> <li>Fluently adds and subtracts multi-digit whole numbers using the standard algorithm</li> <li>Multiplies multi-digit numbers (4 digits by 1 digit and 2 digits by 2 digits); Begins to divide multi-digit numbers (one digit divisor by up to four-digit dividends)</li> </ul>	<ul style="list-style-type: none"> <li>Fluently adds and subtracts multi-digit whole numbers using the standard algorithm</li> <li>Multiplies multi-digit numbers (4 digits by 1 digit and 2 digits by 2 digits); Divides multi-digit numbers (one-digit divisor by up to four-digit dividends)</li> </ul>	<ul style="list-style-type: none"> <li>Accurately adds and subtracts multi-digit whole numbers. Accurately multiplies and divides multi-digit numbers using the standard algorithm</li> </ul>

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<b>Uses place value understanding to round and compare multi-digit whole numbers</b>	<ul style="list-style-type: none"> <li>• Uses place value understanding to round and compare multi-digit whole numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Uses place value understanding to round and compare multi-digit whole numbers</li> </ul>	<ul style="list-style-type: none"> <li>• Accurately uses place value understanding to round and compare multi-digit whole numbers</li> <li>•</li> </ul>
<b>Numbers and Operations - Fractions</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
<b>Generates, compares, and explains fractions and their equivalents</b>	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Begins to generate, compare and explain fractions and their equivalents using visual fraction models</li> </ul>	<ul style="list-style-type: none"> <li>• Accurately generates, compares, and explains fractions and their equivalents</li> </ul>
<b>Adds, subtracts and multiplies fractions with like denominators</b>	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Accurately adds, subtracts and multiplies fractions and/or mixed numbers with like denominators and solves word problems</li> </ul>	<ul style="list-style-type: none"> <li>• Accurately adds, subtracts and multiplies fractions and/or mixed numbers with like denominators and solves word problems</li> </ul>
<b>Compares, converts and adds decimal fractions</b>	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Compares and creates equivalent fractions/decimals (tenths and hundredths)</li> </ul>	<ul style="list-style-type: none"> <li>• Compares and creates equivalent fractions/decimals (tenths and hundredths)</li> </ul>
<b>Measurement and Data</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
<b>Solves problems involving measurement and conversion of measurements</b>	Skills not assessed at this time.	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Accurately converts measurements within one system: distance, liquid volume, mass, time and money; Applies formulas for area and perimeter</li> </ul>

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<b>Represents and interprets data</b>	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Accurately solves problems involving addition and subtraction of fractions by using data presented in a line plot</li> </ul>	<ul style="list-style-type: none"> <li>• Accurately solves problems involving addition and subtraction of fractions by using data presented in a line plot</li> </ul>
<b>Geometry</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
<b>Draws, measures and identifies lines and angles</b>	Skills not assessed at this time.	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Accurately draws, measures and identifies lines and angles</li> </ul>
<b>Classifies shapes by properties of lines and angles</b>	Skills not assessed at this time.	Skills not assessed at this time.	<ul style="list-style-type: none"> <li>• Accurately classifies two dimensional shapes by properties of lines, angles and symmetry</li> </ul>