

**Madison Public Schools  
Grade 5 Marking Period Mathematics Benchmarks**

| Operations and Algebraic Thinking  | MP #1  | MP #2  | MP #3   |
|--|--|--|---|
| <b>Demonstrates fluency and accuracy with multiplication and division math facts</b> | <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>                                | <ul style="list-style-type: none"> <li>Fluently multiplies and divides within 100 (100 facts in 5 minutes)</li> </ul>   |
| <b>Writes, interprets and evaluates numerical expressions and equations</b>          | <ul style="list-style-type: none"> <li>Writes, interprets and evaluates numerical expressions and equations following order of operations</li> </ul> | <ul style="list-style-type: none"> <li>Writes, interprets and evaluates numerical expressions and equations following order of operations</li> </ul> | <ul style="list-style-type: none"> <li>Accurately writes, interprets and evaluates numerical expressions and equations following order of operations</li> </ul> |
| Numbers and Operations Base Ten  | MP #1  | MP #2  | MP #3   |
| <b>Understands place value of whole numbers and decimals</b>                         | <ul style="list-style-type: none"> <li>Reads, writes, rounds and compares whole numbers</li> </ul>   | <ul style="list-style-type: none"> <li>Reads, writes, rounds and compares whole numbers and decimals to thousandths</li> </ul>                       | <ul style="list-style-type: none"> <li>Accurately reads, writes, rounds and compares whole numbers and decimals to thousandths</li> </ul>                       |
| <b>Performs operations with multi-digit whole numbers and decimals to hundredths</b> | <ul style="list-style-type: none"> <li>Adds, subtracts, multiplies and divides multi-digit whole numbers as presented</li> </ul>                     | <ul style="list-style-type: none"> <li>Adds, subtracts, multiplies and divides multi-digit whole numbers and decimals to hundredths</li> </ul>       | <ul style="list-style-type: none"> <li>Accurately adds, subtracts, multiplies and divides multi-digit whole numbers and decimals to hundredths</li> </ul>       |
| Numbers and Operations - Fractions   | MP #1  | MP #2  | MP #3   |
| <b>Performs operations with fractions and mixed numbers</b>                          | <ul style="list-style-type: none"> <li>Adds and subtracts fractions and/or mixed numbers with like and unlike denominators</li> </ul>                | <ul style="list-style-type: none"> <li>Adds, subtracts, multiplies and divides fractions and/or mixed</li> </ul>                                     | <ul style="list-style-type: none"> <li>Accurately performs all four operations with fractions and mixed numbers</li> </ul>                                      |

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|   |   |  |   |
|---|---|--|---|
| <b>with like and unlike denominators</b>                                |   | numbers with like and unlike denominators  |   |
| <b>Solves real world problems involving fractions and mixed numbers</b> | <ul style="list-style-type: none"> <li>Solves real world problems using addition and subtraction of fractions and/or mixed numbers with like and unlike denominators</li> </ul> | <ul style="list-style-type: none"> <li>Solves real world problems using addition, subtraction, multiplication, and division of fractions and/or mixed numbers with like and unlike denominators</li> </ul> | <ul style="list-style-type: none"> <li>Accurately solves real world problems using all four operations with fractions and mixed numbers</li> </ul>          |
| <b>Measurement and Data</b>   | <b>MP #1</b>  | <b>MP #2</b>   | <b>MP #3</b>  |
| <b>Converts units within given measurement systems</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 to solve real world problems</li> </ul>                           |
| <b>Measures volume</b>  | Skills not assessed at this time.   | Skills not assessed at this time.  | <ul style="list-style-type: none"> <li>Understands the concept of volume and accurately finds the volume of solid figures.</li> </ul>                       |
| <b>Represents and interprets data</b>                                   | Skills not assessed at this time.   | Skills not assessed at this time.  | <ul style="list-style-type: none"> <li>Accurately solves problems using all four operations and fractions by using data presented in a line plot</li> </ul> |

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| <b>Geometry</b>   | <b>MP #1</b>                      | <b>MP #2</b>                      | <b>MP #3</b>   |
|---|-----------------------------------|-----------------------------------|--|
| <b>Graphs ordered pairs on a coordinate plane</b>                   | Skills not assessed at this time. | Skills not assessed at this time. | <ul style="list-style-type: none"> <li>• Accurately graphs ordered pairs on a coordinate plane to solve real world problems</li> </ul> |
| <b>Classifies two-dimensional figures based on their properties</b> | Skills not assessed at this time. | Skills not assessed at this time. | <ul style="list-style-type: none"> <li>• Accurately classifies two dimensional figures by their properties</li> </ul>                  |