

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

**Grade 5 Math Benchmarks**

<b>Operations and Algebraic Thinking</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
Demonstrates fluency and accuracy with multiplication and division math facts	Fluently multiplies and divides within 100 (80 facts in 4 minutes)	Fluently multiplies and divides within 100 (100 facts in 5 minutes)	Fluently multiplies and divides within 100 (100 facts in 5 minutes)
Writes, interprets and evaluates numerical expressions and equations	Skills not assessed at this time.	Skills not assessed at this time.	Accurately writes, interprets and evaluates numerical expressions and equations following order of operations
<b>Numbers and Operations Base Ten</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
Understands place value of whole numbers and decimals	Reads, writes, rounds and compares whole numbers and decimals to the thousandths	Accurately reads, writes, rounds and compares whole numbers and decimals to thousandths	Applies the ability to accurately read, write, round and compare whole numbers and decimals to thousandths in various mathematical contexts
Performs operations with multi-digit whole numbers and decimals to hundredths	Adds, subtracts, multiplies and divides multi-digit whole numbers; Adds and subtracts multi-digit decimals to hundredths	Adds, subtracts, multiplies and divides multi-digit whole numbers and decimals to hundredths	Applies the ability to accurately add, subtract, multiply and divide multi-digit whole numbers and decimals to hundredths in various mathematical contexts
<b>Numbers and Operations - Fractions</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
Performs operations with fractions and mixed numbers with like and unlike denominators	Skills not assessed at this time.	Adds, subtracts, multiplies and divides fractions and/or mixed numbers with like and unlike denominators	Accurately performs all four operations with fractions and mixed numbers

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Solves real world problems involving fractions and mixed numbers	Skills not assessed at this time.	Solves real world problems using addition, subtraction, multiplication, and division of fractions and/or mixed numbers with like and unlike denominators	Accurately solves real world problems using all four operations with fractions and mixed numbers
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<b>Measurement and Data</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
Converts units within given measurement systems	Skills not assessed at this time.	Converts measurements within one system to solve real world problems	Accurately converts measurements within one system to solve real world problems
Measures volume	Skills not assessed at this time.	Understands the concept of volume and finds the volume of solid figures.	Understands the concept of volume and accurately finds the volume of solid figures.
Represents and interprets data	Skills not assessed at this time.	Skills not assessed at this time.	Accurately solves problems using all four operations and fractions by using data presented in a line plot
<b>Geometry</b>	<b>MP #1</b>	<b>MP #2</b>	<b>MP #3</b>
Graphs ordered pairs on a coordinate plane	Skills not assessed at this time.	Skills not assessed at this time.	Accurately graphs ordered pairs on a coordinate plane to solve real world problems
Classifies two-dimensional figures based on their properties	Skills not assessed at this time.	Skills not assessed at this time.	Accurately classifies two dimensional figures by their properties