

Madison Public Schools
Grade 4 Marking Period Mathematics Benchmarks

Operations and Algebraic Thinking	MP #1	MP #2	MP #3
Demonstrates fluency and accuracy with multiplication and division math facts	Fluently multiplies within 100 (60 facts in 3 minutes)	Fluently multiplies and divides within 100 (80 facts in 4 minutes)	Fluently multiplies and divides within 100 (100 facts in 5 minutes)
Uses the four operations with whole numbers to solve word problems	Solves word problems involving all four operations as presented	Solves multi-step word problems involving all four operations including variables and interpreting remainders	Accurately solves multi-step word problems involving all four operations including variables and interpreting remainders
Identifies factor pairs and multiples for all whole numbers to 100	Identifies all factor pairs and multiples for all whole numbers to 100; determines prime and composite	Uses all factor pairs and multiples for all whole numbers to 100; determines prime and composite	Accurately identifies all factor pairs and multiples for all whole numbers to 100; determines prime and composite
Numbers and Operations Base Ten	MP #1	MP #2	MP #3
Performs operations with multi-digit whole numbers	Fluently adds and subtracts multi-digit whole numbers using the standard algorithm 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)	Fluently adds and subtracts multi-digit whole numbers using the standard algorithm 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)	Accurately adds and subtracts multi-digit whole numbers using the standard algorithm. Accurately multiplies and divides multi-digit numbers using various strategies.
Uses place value understanding to round and compare multi-digit whole numbers	Uses place value understanding to round and compare multi-digit whole numbers	Uses place value understanding to round and compare multi-digit whole numbers	Accurately uses place value understanding to round and compare multi-digit whole numbers

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Numbers and Operations - Fractions	MP #1	MP #2	MP #3
Generates, compares, and explains fractions and their equivalents	Skills not assessed at this time.	Begins to generate, compare and explain fractions and their equivalents using visual fraction models	Accurately generates, compares, and explains fractions and their equivalents
Adds, subtracts and multiplies fractions with like denominators	Skills not assessed at this time.	Accurately adds, subtracts and multiplies fractions and/or mixed numbers with like denominators and solves word problems	Accurately adds, subtracts and multiplies fractions and/or mixed numbers with like denominators and solves word problems
Compares, converts and adds decimal fractions	Skills not assessed at this time.	Compares and creates equivalent fractions/decimals (tenths and hundredths)	Compares and creates equivalent fractions/decimals (tenths and hundredths)
Measurement and Data	MP #1	MP #2	MP #3
Solves problems involving measurement and conversion of measurements	Skills not assessed at this time.	Skills not assessed at this time.	Accurately converts measurements within one system: distance, liquid volume, mass, time and money; Applies formulas for area and perimeter
Represents and interprets data	Skills not assessed at this time.	Skills not assessed at this time.	Accurately solves problems involving addition and subtraction of fractions by using data presented in a line plot
Geometry	MP #1	MP #2	MP #3
Draws, measures and identifies lines and angles	Skills not assessed at this time.	Skills not assessed at this time.	Accurately draws, measures and identifies lines and angles

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Classifies shapes by properties of lines and angles	Skills not assessed at this time.	Skills not assessed at this time.	Accurately classifies two dimensional shapes by properties of lines, angles and symmetry
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