

Madison Public Schools
Grade 3 Marking Period Mathematics Benchmarks

| Operations and Algebraic Thinking | MP#1 | MP#2 | MP#3 |
|---|---|--|--|
| Demonstrates fluency and accuracy with multiplication and division math facts | Multiplies one-digit numbers by 2, 3, 4, 5, and 10 (consistently recalls one fact in 3 seconds) | Multiplies within 100 (consistently recalls one fact in 3 seconds) | Fluently multiplies and divides within 100 (consistently recalls one fact in 3 seconds) |
| Solves word problems involving the four operations | Solves word problems involving addition, subtraction, and multiplication | Solves word problems involving operations presented including division | Accurately solves two-step word problems involving all four operations |
| Numbers and Operations Base Ten | MP#1 | MP#2 | MP#3 |
| Uses place value understanding and properties to perform multi-digit arithmetic | Adds, subtracts, and rounds numbers within 1000 | Fluently adds, subtracts, and rounds numbers within 1000 | Fluently adds, subtracts, and multiplies numbers within 1000 (one digit numbers by multiples of 10 with a range 10-90) |
| Numbers and Operations - Fractions | MP#1 | MP#2 | MP#3 |
| Represents and explains fractions on a number line | Skills not assessed at this time | Plots fractions on a number line using equal intervals | Accurately plots fractions on a number line using equal intervals Explains placement of fractions |
| Explains and compares fractions and their equivalents | Skills not assessed at this time | Expresses, compares, and generates equivalent fractions | Accurately expresses, compares, and generates equivalent fractions |

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| Measurement and Data | MP#1 | MP#2 | MP#3 |
|---|----------------------------------|--|--|
| Reads, writes and solves problems involving time | Skills not assessed at this time | Skills not assessed at this time | Accurately reads and writes time to the minute and solves problems involving elapsed time |
| Solves problems using metric measure involving liquid volume and mass | Skills not assessed at this time | Skills not assessed at this time | Accurately measures, estimates and solves problems in metric units involving liquid volume and mass |
| Represents and interprets data using graphs and line plots | Skills not assessed at this time | Skills not assessed at this time | Accurately generates and interprets data on line plots, picture graphs and bar graphs |
| Understands concepts of perimeter and area | Skills not assessed at this time | Measures and calculates areas using addition and multiplication. | Accurately measures and compares areas and perimeters using addition and multiplication |
| Geometry | MP#1 | MP#2 | MP#3 |
| Categorizes shapes by their attributes | Skills not assessed at this time | Skills not assessed at this time | Accurately describes, compares, and classifies shapes into multiple categories (ex. trapezoid = quadrilateral) |