|  | Math Teachers <br> 4850 Park Glen Road, Minneapolis, phone (800) 852-2435 <br> fax (952) <br> Georgia's K-12 Mathematics Stand <br> Moving with Math FOUNDA <br> ALGEBRA intermediate/Mid | Press,I <br> MN 55416 <br> 546-7502 <br> dards Correlat ATIONS for le (IM) Grade 5 | nc. <br> ed to |  |
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|  |  | IM1 <br> Number, Reasoning, and Data <br> Teacher Guide Page (and Student Book Page) and Skill Builders (SB) | IM2 <br> Fractions, Decimals, Percent, and Probability Teacher Guide Page (and Student Book Page) and Skill Builders (SB) | IM3 <br> Geometry, Measurement, and Graphing Teacher Guide Page (and Student Book Page) and Skill Builders (SB) |
|  | NUMERICAL REASONING - place value, multiplying by powers of 10 , multiplication and division of multi-digit numbers, fractions, decimal numbers, numerical expressions |  |  |  |
| 5.NR.1: | Use place value understanding to solve reallife, mathematical problems. |  |  |  |
| 5.NR.1.1 | Explain that in a multi-digit number, a digit in one place represents 10 times as much as it represents in the place to its right and $1 / 10$ of what it represents in the place to its left. | $2$ <br> SB: 1-1 | SB: 1-1 | SB: 1-1 |
| 5.NR.1.2 | Explain patterns in the placement of digits when multiplied or divided by a power of 10 . Use whole-number exponents to denote powers of 10 , up to $10^{3}$. | 4 <br> SB: 1-2, 1-3 |  |  |
| 5.NR.2: | Multiply and divide multi-digit whole numbers to solve relevant, mathematical problems. |  |  |  |
| 5.NR.2.1 | Fluently multiply multi-digit (up to 3-digit by 2digit) whole numbers to solve authentic problems. | $\begin{aligned} & 32-39,50,53-55 \\ & \text { SB: } 8-1 \text { to } 8-5,8- \\ & 7,45-8,45-12,45- \\ & 16 \end{aligned}$ |  |  |
| 5.NR.2.2 | Fluently divide multi-digit whole numbers (up to 4-digit dividends and 2-digit divisors no greater than 25) to solve practical problems. | $\begin{aligned} & 39-47,49,50,53- \\ & 55 \\ & \text { SB: } 9-1 \text { to } 9-3,10- \\ & 2,10-4,10-7,45- \\ & 8,45-12,45-16 \end{aligned}$ | SB: 9-1, 10-1 | SB: 9-1 |
| 5.NR.3: | Describe fractions and perform operations with fractions to solve relevant, mathematical problems using part-whole strategies and visual models |  |  |  |


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| 5.NR.3.1 | Explain the meaning of a fraction as division of the numerator by the denominator $(a / b=a \div b)$. Solve problems involving division of whole numbers leading to answers in the form of fractions or mixed numbers. |  | $2,3,4$ <br> SB: 11-3 |  |
| 5.NR.3.2 | Compare and order up to three fractions with different numerators and/or different denominators by flexibly using a variety of tools and strategies. |  | SB: 13-2 |  |
| 5.NR.3.3 | Model and solve problems involving addition and subtraction of fractions and mixed numbers with unlike denominators. |  | $\begin{aligned} & 19-23,26,27 \\ & \text { SB: } 17-1 \text { to } 17-3, \\ & 18-1,18-2,45-3, \\ & 45-10 \end{aligned}$ |  |
| 5.NR.3.4 | Model and solve problems involving multiplication of a fraction and a whole number. |  | $30-32$ <br> SB: 19-3 to 19-5 |  |
| 5.NR.3.5 | Explain why multiplying a whole number by a fraction greater than one results in a product greater than the whole number, and why multiplying a whole number by a fraction less than one results in a product less than the whole number and multiplying a whole number by a fraction equal to one results in a product equal to the whole number. |  | 28, 30-32 |  |
| 5.NR.3.6 | Model and solve problems involving division of a unit fraction by a whole number and a whole number by a unit fraction. |  | 34 |  |
| 5.NR.4: | Read, write, and compare decimal numbers to the thousandths place, and round and perform operations with decimal numbers to the hundredths place to solve relevant, mathematical problems |  |  |  |
| 5.NR.4.1 | Read and write decimal numbers to the thousandths place using base ten numerals written in standard form and expanded form. |  | $\begin{aligned} & 41-46 \\ & \text { SB: } 21-1 \text { to } 21-3, \\ & 22-1,22-2,23-1, \\ & 23-3,23-4,25-4, \\ & 26-1 \end{aligned}$ | SB: 22-1, 23-1 |
| 5.NR.4.2 | Represent, compare, and order decimal numbers to the thousandths place based on the meanings of the digits in each place, using >, =, and < symbols to record the results of comparisons. |  | $\begin{aligned} & \text { 49-51 } \\ & \text { SB: } 24-1 \text { to } 24-3 \end{aligned}$ | SB: 24-1 |


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| 5.NR.4.3 | Use place value understanding to round decimal numbers to the hundredths place. |  | $52,53$ <br> SB: 51-1 to 51-4 |  |
| 5.NR.4.4 | Solve problems involving addition and subtraction of decimal numbers to the hundredths place using a variety of strategies. |  | 54, 55 <br> SB: 26-2 to 26-4 | SB: 26-1 |
| 5.NR.5: | Write, interpret, and evaluate numerical expressions within authentic problems. |  |  |  |
| 5.NR.5.1 | Write, interpret, and evaluate simple numerical expressions involving whole numbers with or without grouping symbols to represent actual situations. | $\begin{aligned} & 22,50,55 \\ & \text { SB: } 45-2,45-11, \\ & 45-12,45-16 \end{aligned}$ | $\begin{aligned} & 35,36,65 \\ & \text { SB: } 45-1,45-2, \\ & 45-6,45-9,45- \\ & 15 \end{aligned}$ |  |
|  | PATTERNING \& ALGEBRAIC REASONING generating patterns, plotting ordered pairs in the first quadrant |  |  |  |
| 5.PAR.6: | Solve relevant problems by creating and analyzing numerical patterns using the given rule(s). |  |  |  |
| 5.PAR.6.1 | Generate two numerical patterns using two given rules. Identify apparent relationships between corresponding terms by completing a table. | $76$ <br> SB: 44-5 |  |  |
| 5.PAR.6.2 | Represent problems by plotting ordered pairs and explain coordinate values of points in the first quadrant of the coordinate plane. | $78$ <br> SB: 44-4 |  |  |
|  | MEASUREMENT \& DATA REASONING - <br> measurements within the metric system, measurement conversions and time as a unit of measurement |  |  |  |
| 5.MDR.7: | Solve problems involving customary measurements, metric measurements, and time and analyze graphical displays of data to answer relevant questions. |  |  |  |
| $\begin{gathered} \text { 5.MDR. } 7 . \\ 1 \end{gathered}$ | Explore realistic problems involving different units of measurement, including distance, mass, weight, volume, and time. |  |  | $\begin{aligned} & 28,38,39 \\ & \text { SB: } 40-1 \text { to } 40- \\ & 3,45-1,45-3 \\ & 45-4 \end{aligned}$ |
| $\begin{gathered} \text { 5.MDR. } 7 . \\ 2 \end{gathered}$ | Ask questions and answer them based on gathered information, observations, and appropriate graphical displays to solve problems relevant to everyday life. | $61$ <br> SB: 46-5 |  | $\begin{aligned} & 66,68-73,75 \\ & \text { SB: } 47-1 \text { to } 47- \\ & 3,47-5 \text { to } 47-7, \\ & 48-1 \text { to } 48-3, \\ & 48-5 \end{aligned}$ |


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| $\begin{gathered} \text { 5.MDR. } 7 . \\ 3 \end{gathered}$ | Convert among units within the metric system and then apply these conversions to solve multistep, practical problems. |  |  | $\begin{aligned} & 33,35,37 \\ & \text { SB: } 36-6,41-2 \text {, } \\ & 42-2 \end{aligned}$ |
| $\begin{gathered} \text { 5.MDR. } 7 . \\ 4 \end{gathered}$ | Convert among units within relative sizes of measurement units within the customary measurement system. |  |  | $\begin{aligned} & 31,34,36 \\ & \text { SB: } 36-4,41-1 \text {, } \\ & 42-1 \end{aligned}$ |
|  | GEOMETRIC \& SPATIAL REASONING - <br> Properties of polygons and rectangular prisms, classify polygons |  |  |  |
| 5.GSR.8: | Examine properties of polygons and rectangular prisms, classify polygons by their properties, and discover volume of right rectangular prisms. |  |  |  |
| 5.GSR.8.1 | Classify, compare, and contrast polygons based on properties. |  |  | $7,8$ <br> SB: 34-1 to 34- $3$ |
| 5.GSR.8.2 | Determine, through exploration and investigation, that attributes belonging to a category of twodimensional figures also belong to all subcategories of that category. |  |  | $9$ <br> SB: 34-4, 34-5, $34-10$ |
| $\begin{gathered} \text { 5.GSR.8.3 } \\ \text { I } \end{gathered}$ | Investigate volume of right rectangular prisms by packing them with unit cubes without gaps or overlaps. Then, determine the total volume to solve problems. |  |  | $\begin{aligned} & 52,53 \\ & \text { SB: } 39-1,39-5 \end{aligned}$ |
| 5.GSR.8.4 | Discover and explain how the volume of a right rectangular prism can be found by multiplying the area of the base times the height to solve authentic, mathematical problems. |  |  | 53 <br> SB: 39-2 |

