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STANDARDS	PAGE REFERENCES
<p>Algebraic Reasoning: Patterns And Functions – Patterns and functional relationships can be represented and analyzed using a variety of strategies, tools and technologies. How do patterns and functions help us describe data and physical phenomena and solve a variety of problems?</p>	
<p>Students should...</p>	
<p>1.1 Understand and describe patterns and functional relationships.</p>	
<p>a. Examine attributes of objects and describe the relationships.</p>	<p>Student Edition: 17-18, 19-20, 123-124 <i>Mid-Chapter Check</i> 131 #1 <i>Problem-Solving Projects</i> P3-P6 <i>Problem-Solving Strategy</i> 21-22, 247-248 Teacher Edition: CCL 13G, 13H, 119G; FMC 17A, 19A, 123A; 5MC 17A</p>

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<p>Continued from cell above...</p> <p>a. Examine attributes of objects and describe the relationships.</p>	<p>Continued from cell above...</p> <p>Impact Mathematics Grade 1</p> <p>Student Edition: 35-36, 37-38, 39-40, 41-42, 67-68, A13-A14</p> <p>Teacher Guide: T35-T36, T37-T38, T39-T40, T41-T42, T67-T68, A15-A16</p>
<p>1.2</p> <p>Represent and analyze quantitative relationships in a variety of ways.</p>	
<p>a. Represent the result of counting, combining and separating sets of objects using number sentences.</p>	<p>Student Edition: 51-52, 53-54, 55-56, 89-90, 91-92, 95-96, 108-109 <i>Chapter Review</i> 79-80 <i>Extra Practice</i> 57, 93 <i>Game Time</i> 58 <i>Mid-Chapter Check</i> 63, 99 <i>Problem-Solving</i> 77-78 <i>Problem-Solving Investigation</i> 105-106, 257-258 <i>Problem-Solving Strategy</i> 61-62, 187-188 <i>Test Practice</i> 82, 118 #11, #12</p> <p>Teacher Edition: CCL 47H, 83G, 83H; CP 49, 85; FMC 51A, 53A, 55A, 89A, 91A, 95A</p> <p>Impact Mathematics Grade 1</p> <p>Student Edition: 3-4, 5-6, 7-8, 9-10, 11-12, 15-16, 17-18, 19-20, 21-22, 37-38, 67-68, 69-70, 71-72, 73-74</p> <p>Teacher Guide: T3-T4, T5-T6, T7-T8, T9-T10, T11-T12, T15-T16, T17-T18, T19-T20, T21-T22, T37-T38, T67-T68, T69-T70, T71-T72, T73-T74</p>

STANDARDS	PAGE REFERENCES
<p>1.3 Use operations, properties and algebraic symbols to determine equivalence and solve problems.</p>	
<p>a. Identify quantities as equivalent or nonequivalent.</p>	<p>Student Edition: 35-36, 363-364 <i>Chapter Review</i> 44 Teacher Edition: DI 35B; FMC 35A, 67A, 363A <i>Impact Mathematics Grade 1</i> Student Edition: 67-68, 69-70, 71-72, 73-74, 77-78, A29-A30 Teacher Guide: T67-T68, T69-T70, T71-T72, T73-T74, T77-T78, A31-A32</p>
<p>Numerical and Proportional Reasoning – Quantitative relationships can be expressed numerically in multiple ways in order to make connections and simplify calculations using a variety of strategies, tools and technologies. How are quantitative relationships represented by numbers?</p>	
<p>Students should...</p>	
<p>2.1 Understand that a variety of numerical representations can be used to describe quantitative relationships.</p>	
<p>a. Represent and order two-digit numbers as groups of tens and ones in the base ten place value system.</p>	<p>Student Edition: 69-72, 243-244, 419-426, 429-432, 433-434, 443-444, 445-446 <i>Chapter Review</i> 80, 269 <i>Extra Practice</i> 425 <i>Mid-Chapter Check</i> 253 #1-#3, 437 <i>Tech Link</i> 435-436 <i>Test Practice</i> 82, 453 Teacher Edition: CaT 415H; FMC 69A, 243A, 419A, 423A, 429A, 433A, 443A, 445A <i>Impact Mathematics Grade 1</i> Student Edition: 77-78, 79-80, 81-82, 83-84, 85-86, A29-A30 Teacher Guide: T77-T78, T79-T80, T81-T82, T83-T84, T85-T86, A31-A32</p>

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<p>b. Identify and compare equal parts of a whole.</p>	<p>Student Edition: 65 #3, 68 #7, 457-458, 461-462 <i>Chapter Review</i> 79 #6, #10, 477 <i>Extra Practice</i> 465 <i>Game Time</i> 466 <i>Mid-Chapter Check</i> 467 <i>Problem-Solving</i> 77-78 <i>Problem-Solving Project</i> P3-P6 <i>Problem-Solving Strategy</i> 459-460 <i>Test Practice</i> 82 #8, #12</p> <p>Teacher Edition: CCL 453G, 453H; CP 455; FMC 457A, 461A, 463A <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 3-4, 5-6, 7-8, 9-10, 11-12, 23-24, 25-26, 27-28, 105-106</p> <p>Teacher Guide: T3-T4, T5-T6, T7-T8, T9-T10, T11-T12, T25-T26, T27-T28, T105-T106</p>
<p>c. Partition a set of objects into smaller groups with equal amounts.</p>	<p>Student Edition: 53-54, 65-66, 457-458, 461-462 <i>Chapter Review</i> 79, 477 <i>Extra Practice</i> 465 <i>Game Time</i> 466 <i>Mid-Chapter Check</i> 63, 99 #1, 467 <i>Problem-Solving Strategy</i> 459-460</p> <p>Teacher Edition: CCL 47H; CP 49, 455; FMC 53A, 65A, 457A, 461A, 463A <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 3-4, 5-6, 7-8, 9-10, 11-12, 23-24, 25-26, 27-28, 105-106</p> <p>Teacher Guide: T3-T4, T5-T6, T7-T8, T9-T10, T11-T12, T25-T26, T27-T28, T105-T106</p>

STANDARDS	PAGE REFERENCES
<p>d. Describe relationships between quantities using ratios.</p>	<p>Student Edition: 461-462, 463-464, 469-470, 471-472 <i>Game Time</i> 466 <i>Problem Solving</i> 475-476 <i>Test Practice</i> 479</p> <p>Teacher Edition: CCL 453G; FMC 461A, 463A, 469A, 471A <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 105-106</p> <p>Teacher Guide: T105-T106</p>
<p>2.2 Use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.</p>	
<p>a. Count by groups, add one more to the grouping and compare values of groups.</p>	<p>Student Edition: 53-54, 65-66, 67-68, 157-158, 171-172, 319-320 <i>Chapter Review</i> 343 #4 <i>Test Practice</i> 82 #11, #12</p> <p>Teacher Edition: FMC 53A, 65A, 67A, 171A, 319A <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 36, 37-38, 39-40, 41-42, A13-A14</p> <p>Teacher Guide: T35-T36, T37-T38, T39-T40, T41-T42, A15-A16</p>

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<p>b. Add by counting and combining and subtract by separating, comparing or counting on.</p>	<p>Student Edition: 53-54, 65-66, 67-68, 87-88, 89-90, 91-92, 101-102, 103-104, 107-108 <i>Chapter Review</i> 115-116 <i>Extra Practice</i> 93 <i>Game Time</i> 94 <i>Mid-Chapter Check</i> 99 <i>Problem-Solving Investigation</i> 73-74, 105-106</p> <p>Teacher Edition: CCL 47H, 83G; FMC 53A, 65A, 67A, 87A, 89A, 91A, 101A, 103A</p> <p>Impact Mathematics Grade 1</p> <p>Student Edition: 1-2, 3-4, 5-6, 7-8, 9-10, 11-12, 13-14, 15-16, 17-18, 19-20, 21-22, 23-24, 25-26, 27-28, 29-30, 31-32, 67-68, 69-70, 71-72, 73-74, A1-A2, A6</p> <p>Teacher Guide: T1-T2, T3-T4, T5-T6, T7-T8, T9-T10, T11-T12, T13-T14, T15-T16, T17-T18, T19-T20, T21-T22, T23-T24, T25-T26, T27-T28, T29-T30, T31-T32, T67-T68, T69-T70, T71-T72, T73-T74, A3-A4, A7-A8</p>

STANDARDS	PAGE REFERENCES
<p>Geometry and Measurement – Shapes and structures can be analyzed, visualized, measured and transformed using a variety of strategies, tools and technologies.</p> <p>How do geometric relationships and measurements help us to solve problems and make sense of our world?</p>	
<p>Students should...</p>	
<p>3.1 Use properties and characteristics of two- and three-dimensional shapes and geometric theorems to describe relationships, communicate ideas and solve problems.</p>	
<p>a. Classify shapes and solids by common characteristics.</p>	<p>Student Edition: 381, 385-386, 387-388, 391-392, 395-396 <i>Chapter Review</i> 411 <i>Extra Practice</i> 393 <i>Game Time</i> 394 <i>Mid-Chapter Check</i> 397 <i>Test Practice</i> 413</p> <p>Teacher Edition: CCL 381G, 381H; CP 383; FMC 385A, 387A, 391A, 395A</p> <p>Impact Mathematics Grade 1 Student Edition: 89-90, 91-92, 95-96, 97-98, 101-102, 103-104, 107-108, A33-A34, A37-A38</p> <p>Teacher Guide: T89-T90, T91-T92, T95-T96, T97-T98, T101-T102, T103, T104, T107-T108, A35-A36, A39-A40</p>
<p>3.2 Use spatial reasoning, location and geometric relationships to solve problems.</p>	
<p>a. Describe, name and interpret direction and position of objects.</p>	<p>Student Edition: 401-404, 407-408 <i>Chapter Review</i> 412 <i>Test Practice</i> 414 #9</p> <p>Teacher Edition: FMC 401A, 407A</p> <p>Impact Mathematics Grade 1 Student Edition: 89-91, 93-94, 97-98, 103-104, 105-106</p> <p>Teacher Guide: T89-T91, T93-T94, T97-T98, T103-T104, T105-T106</p>

STANDARDS	PAGE REFERENCES
<p>3.3 Develop and apply units, systems, formulas and appropriate tools to estimate and measure.</p>	
<p>a. Plan and sequence events.</p>	<p>Student Edition: <i>Problem-Solving Projects</i> P7-P10 <i>Impact Mathematics Grade 1</i> Student Edition: 55-56, 57-58, 59-60, 61-62, 63-64, A22 Teacher Guide: T55-T56, T57-T58, T59-T60, T61-T62, T63-T64, A23-A24</p>
<p>b. Estimate length, area, volume, weight and temperature using nonstandard units.</p>	<p>Student Edition: 279-280 <i>Mid-Chapter Check</i> 289 Teacher Edition: CCL 273H; FMC 279A; 5MC 281A</p>
<p>c. Use standard units of measure to communicate measurement in a universal manner.</p>	<p>Student Edition: <i>Chapter Review</i> 310 #9-#12 <i>Concepts and Skills Bank</i> CS9-CS10 <i>Looking Ahead</i> LA11-LA12, LA13-LA14 <i>Problem-Solving Strategy</i> 281-282 Teacher Edition: CP 275; DI 277B, 281B; LA11A, LA13A</p>

STANDARDS	PAGE REFERENCES
<p>Working with Data: Probability and Statistics – Data can be analyzed to make informed decisions using a variety of strategies, tools and technologies.</p> <p>How can collecting, organizing and displaying data help us analyze information and make reasonable predictions and informed decisions?</p>	
<p>Students should...</p>	
<p>4.1 Collect, organize and display data using appropriate statistical and graphical methods.</p>	
<p>a. Collect, organize, record and describe data.</p>	<p>Student Edition: 123-124, 125-126, 129-130, 137-138 <i>Chapter Review</i> 148 <i>Mid-Chapter Check</i> 131 <i>Spiral Review</i> 132 <i>Start Smart</i> 11-12 <i>Tech Link</i> 139-140</p> <p>Teacher Edition: CCL 119H; CP 121; FMC 123A, 125A, 129A, 137A <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 45-46, 47-48, 49-50, 51-52, A17-A18</p> <p>Teacher Guide: T45-T46, T47-T48, T49-T50, T51-T52, A19-A20</p>
<p>4.2 Analyze data sets to form hypotheses and make predictions.</p>	
<p>a. Organize data in tables and graphs and make comparisons of the data.</p>	<p>Student Edition: 119, 137-138 <i>Chapter Review</i> 148 #7-#8 <i>Problem-Solving Strategy</i> 127-128</p> <p>Teacher Edition: CaT 119H; CCL 119H; CP 121; FMC 129A, 137A; GB 139 <i>Impact Mathematics Grade 1</i></p> <p>Student Edition: 45-46, 47-48, 49-50, 51-52, A17-A18</p> <p>Teacher Guide: T45-T46, T47-T48, T49-T50, T51-T52, A19-A20</p>

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<p>4.3 Understand and apply basic concepts of probability.</p>	
<p>a. Determine the likelihood of certain events through simple experiments and observations of games.</p>	<p>Student Edition: 143-144 <i>Chapter Review</i> 148 #10 <i>Game Time</i> 136 Teacher Edition: A 144; DI 143B; FMC 143A</p>