



Math Connects

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STANDARDS	PAGE REFERENCES
1. Place Value	
<p>A. Solve problems involving 10 MORE/LESS or 100 MORE/LESS than a given number.</p>	<p>The following page references cover this concept using larger numbers. Student Edition: <i>Test Practice</i> 90 #3, 140 #3, 189 #9, 307 #7</p>
<p>B. Identify alternative forms of expressing whole numbers <1000 using expanded notation.</p>	<p>The following page references cover this concept using larger numbers. Student Edition: 18-19, 22-24 <i>Are You Ready?</i> 16 <i>Extra Practice</i> R2 <i>Mid-Chapter Check</i> 31 #1-#4, #9, #10 <i>Real-World Example</i> 22, 23 <i>Real-World Problem Solving</i> 24 <i>Study Guide and Review</i> 45 Teacher Edition: AE 18; ATS 18; IWO 17B; M 14G</p>

STANDARDS	PAGE REFERENCES
<p>C. Identify alternative forms of expressing whole numbers <1000 using regrouping.</p>	<p>Student Edition: <i>Explore</i> 70-71 <i>Extend</i> 68 <i>Hands-On Mini Activity</i> 64 Teacher Edition: ATS 65; I 64, 70; IWO 64B; T 64</p>
<p>D. Use place value concepts to identify and compare the magnitude and value of digits in 2- and 3-digit numbers.</p>	<p>The following page references cover this concept using larger numbers. Student Edition: 17, 18 #1-#4, #11, 19 #12-#19, 23 #1-#4, #12, 24 #13-#20 <i>Chapter Test</i> 49 #3, #4 <i>Example</i> 17 <i>Extra Practice</i> R2 <i>Get Ready to Learn</i> 17 <i>H.O.T. Problems</i> 19 <i>Mid-Chapter Check</i> 31 #7, #8 <i>Real-World Problem Solving</i> 19 <i>Study Guide and Review</i> 45 <i>Test Practice</i> 51 #5, #9, 90 #6, #9, #12, 140 #6, 268 #5 Teacher Edition: A 19; I 17; SGO 17B; T 17</p>
2. Pictorial Representation of Numbers	
<p>A. Relate fractions and decimals to pictorial representations and vice versa.</p>	<p>Student Edition: 579-581, 583-584 <i>Are You Ready?</i> 536, 576 <i>Big Idea</i> 574 <i>Chapter Test</i> 611 #5, #12, #13 <i>Example</i> 579, 580, 582 <i>Explore</i> 577-578 <i>Extra Practice</i> R36, R38 <i>Mid-Chapter Check</i> 593 #1, #2, #14 <i>Study Guide and Review</i> 607, 610 <i>Test Practice</i> 543, 585, 613 #8 Teacher Edition: AR 574G; I 537, 579; IWO 579B; T 579; TOD 581</p>

STANDARDS	PAGE REFERENCES
<p>B. Relate fractions of regions and sets to pictures and vice versa.</p>	<p>Student Edition: 537-539, 540-542 <i>Big Idea</i> 534 <i>Chapter Test</i> 571 #7 <i>Data File</i> 542 <i>Extra Practice</i> R34, R35 <i>H.O.T. Problems</i> 543 <i>Mid-Chapter Check</i> 553 #1-#10 <i>Real-World Example</i> 537, 538, 540 <i>Study Guide and Review</i> 567 <i>Test Practice</i> 543, 572 #3, #8, #14</p> <p>Teacher Edition: A 539, 543; AE 538, 541; ATS 538, 541; I 540; IWO 540B; SGO 537B; T 540</p>
<p>C. Label and/or shade fractional parts of regions and/or sets.</p>	<p>Student Edition: 537-539, 540-542 <i>Extra Practice</i> R34, R35 <i>H.O.T. Problems</i> 543 <i>Test Practice</i> 543</p> <p>Teacher Edition: A 539; AE 538, 541; I 537; IWO 537B</p>
<p>3. Equivalent Fractions, Decimals and Percents</p>	
<p>A. Relate equivalent fractions to pictorial representations.</p>	<p>Student Edition: 550 <i>Chapter Test</i> 571 #8 <i>Example</i> 548, 549 <i>Explore</i> 546 <i>Extra Practice</i> R35</p> <p>Teacher Edition: ATS 549; I 546</p>

STANDARDS	PAGE REFERENCES
4. Order, Magnitude and Rounding of Numbers	
<p>A. Order whole numbers <10,000.</p>	<p>The following page references cover this concept using larger numbers.</p> <p>Student Edition: 32-34 <i>Chapter Test</i> 49 #5, #7-#9 <i>Data File</i> 34 <i>Extra Practice</i> R3 <i>Game Time</i> 35 <i>H.O.T. Problems</i> 34 <i>Real-World Example</i> 32, 33 <i>Study Guide and Review</i> 47</p> <p>Teacher Edition: AE 33; ATS 33; H 14H; I 32; S 14H; T 32</p>
<p>B. Describe magnitude of 2- and 3-digit whole numbers, fractions, mixed numbers and decimals (tenths).</p>	<p>Student Edition: <i>Example</i> 17, 18, 555, 561, 579, 582, 591 <i>Real-World Example</i> 28, 29, 32, 33, 554, 560, 583, 590</p> <p>Teacher Edition: A 19; T 17</p>
<p>C. Round 2- and 3-digit whole numbers in context.</p>	<p>The following page references cover this concept using larger numbers.</p> <p>Student Edition: 36-38 <i>Are You Ready?</i> 16 <i>Chapter Test</i> 49 #12, #16 <i>Extra Practice</i> R3 <i>H.O.T. Problems</i> 39 <i>Key Concept</i> 37 <i>Real-World Example</i> 36, 37, 58, 59 <i>Real-World Problem Solving</i> 38, 60 <i>Study Guide and Review</i> 48 <i>Test Practice</i> 39, 51 #10</p> <p>Teacher Edition: A 39; AE 37; ATS 38; FMB 36A; IWO 36B; NM 39; SGO 36B</p>

STANDARDS	PAGE REFERENCES
<p>D. Identify points representing 2- and 3-digit whole numbers, fractions (halves, thirds, fourths) and decimals (tenths) on a number line and vice versa.</p>	<p>The following page references cover this concept using larger numbers.</p> <p>Student Edition: 395-397, 550 #9, 551 #23, 563 #23, #24, 588-589, 598 #27-#30 <i>Activity</i> 547 <i>Are You Ready?</i> 616 #12 <i>Chapter Test</i> 433 #3-#5, 571 #15, 611 #17 <i>Example</i> 395, 396, 549, 555, 561, 588, 596 <i>Extra Practice</i> R25, R37 <i>H.O.T. Problems</i> 397, 589 <i>Mid-Chapter Check</i> 409 #1-#3, 593 #16 <i>Real-World Example</i> 28, 32, 36, 554, 590, 602 <i>Study Guide and Review</i> 429, 608 <i>Test Practice</i> 435 #8, 557, 572 #6, #11, 612 #1, #10, #13</p> <p>Teacher Edition: A 557, 589; AE 396; ATS 396, 589; CE 396; I 395; IWO 395B, 588B; NM 396; SGO 395B, 588B; T 395, 588</p>
5. Models for Operations	
<p>A. Identify members of multiplication and division fact families from arrays (factors of 2, 3, 4, 5 and 10).</p>	<p>Student Edition: 147-149, 178 #27, #28 <i>Are You Ready?</i> 144 <i>Big Idea</i> 142 <i>Chapter Test</i> 187 #9, #14 <i>Explore</i> 145-146 <i>H.O.T. Problems</i> 149 <i>Real-World Example</i> 148, 154, 155, 160, 161, 176 <i>Study Guide and Review</i> 181 <i>Test Practice</i> 189 #12</p> <p>Teacher Edition: A 149; AE 148; AR 142G; H 142G; I 147; SGO 147B, 154B; SS 142H</p>

STANDARDS	PAGE REFERENCES
<p>B. Identify the appropriate operation or number sentence to solve a story problem (2-digit numbers).</p>	<p>Student Edition: 158-159 <i>Chapter Test</i> 187 #5 <i>Mid-Chapter Check</i> 163 #18, #19 <i>Study Guide and Review</i> 183 <i>Test Practice</i> 188 #1, #11</p> <p>Teacher Edition: A 159, ATS 159, ELL 158B; I 158; SGO 158B; T 158</p>
<p>C. Write a story problem that matches a given addition, subtraction or multiplication sentence. Use 1- and 2- digit numbers for addition and subtraction. Use 1-digit factors for multiplication.</p>	<p>Student Edition: <i>H.O.T. Problems</i> 74, 157, 169</p> <p>Teacher Edition: IWO 76B, 158B, 198B, 202B; SGO 58B, 176B; WM 165</p>
<p>6. Basic Facts</p>	
<p>A. Find the missing product in a multiplication equation where one factor is 2, 3, 4, 5 or 10.</p>	<p>Student Edition: 148 #5, #6, 149 #19, #20, 156 #27, #28 <i>Mid-Chapter Check</i> 163 #15, #16 <i>Real-World Example</i> 148 <i>Study Guide and Review</i> 182 <i>Test Practice</i> 188 #7</p>
<p>B. Find the missing factor in a division equation where one factor is 2, 3, 4, 5 or 10.</p>	<p>Student Edition: 156 #29, #30 <i>Mid-Chapter Check</i> 163 #17 <i>Study Guide and Review</i> 182 <i>Test Practice</i> 157</p>

STANDARDS	PAGE REFERENCES
7. Computation with Whole Numbers and Decimals	
<p>A. Add and subtract 2- and 3-digit whole numbers and money amounts less than \$10 with and without regrouping.</p>	<p>The following page references cover this concept using larger numbers.</p> <p>Student Edition: 66, 74, 82 <i>Are You Ready?</i> 54 <i>Big Idea</i> 52 <i>Example</i> 64 <i>Explore</i> 70-71 <i>Extra Practice</i> R5 <i>Real-World Example</i> 65, 72, 73, 80, 81 <i>Study Guide and Review</i> 87</p> <p>Teacher Edition: A 57, 74; ATS 65, 73; CE 73, 66; I 64, 70; IWO 64B, 72B; T 72</p>
<p>B. Multiply and divide 2-digit whole numbers by one digit.</p>	<p>Student Edition: 247-248, 328 <i>Big Idea</i> 234, 308 <i>Chapter Test</i> 353 #3, #4 <i>Data File</i> 248 <i>Example</i> 247 <i>Explore</i> 311-312 <i>Extra Practice</i> R10, R16, R20 <i>Hands-On Mini Activity</i> 246 <i>Mid-Chapter Check</i> 249 #11-#16 <i>Real-World Example</i> 155, 161, 313, 326 <i>Real-World Problem Solving</i> 156, 162, 328 <i>Study Guide and Review</i> 264, 347, 349 <i>Test Practice</i> 268 #1, #7, #9, #13, 329, 354 #7, #9</p> <p>Teacher Edition: ATS 247; IWO 246B, 313B; T 326</p>
8. Computation with Fractions and Integers	
<p>A. Add and subtract fractions with like denominators.</p>	<p>Student Edition: <i>Real-World Example</i> 560</p> <p>Teacher Edition: FMB LA14A; I LA14</p>

STANDARDS	PAGE REFERENCES
9. Solve Word Problems	
<p>A. Solve one-step story problems involving whole numbers and money amounts. Use 2- and 3-digit numbers in addition and subtraction problems. Use 1- and 2-digit numbers in multiplication problems.</p>	<p>The following page references cover this concept, some using larger numbers.</p> <p>Student Edition: 66 #5, #15, 73 #5, 77 #1-#3, 81 #7, 82 #20, 148 #9, 156 #34, 159, 161 #9, 167 #9, 168 #35 <i>Chapter Test</i> 89 #16, #17, 187 #5 <i>Data File</i> 66, 149 <i>Real-World Example</i> 65, 73, 80, 81, 148, 154, 160, 166 <i>Real-World Problem Solving</i> 156 <i>Study Guide and Review</i> 88, 183 <i>Test Practice</i> 83, 90 #1, #7, #8</p>
<p>B. Solve one-step story problems involving addition or subtraction with extraneous information. Use 2-and 3-digit numbers in addition and subtraction problems.</p>	<p>Student Edition: 202-203 <i>Chapter Test</i> 231 #10 <i>Extra Practice</i> R13 <i>Mid-Chapter Check</i> 207 #14 <i>Study Guide and Review</i> 226</p> <p>Teacher Edition: A 203; ATS 203; IWO 202B; T 202</p>
10. Numerical Estimation Strategies	
<p>A. Identify the best expression to find an estimate.</p>	<p>Student Edition: 59-60, 243-244, 277-278, 323-324 <i>Are You Ready?</i> 54 #1-#6 <i>Real-World Example</i> 58, 59, 242, 243, 276, 277, 322, 323</p> <p>Teacher Edition: ATS 59, 243, 323; IWO 58B, 276B; SGO 242B, 276B; T 58, 242, 276</p>

STANDARDS	PAGE REFERENCES
11. Estimating Solutions to Problems	
<p>A. Identify a reasonable estimate to a problem, including estimating change from \$1, \$5 and \$10.</p>	<p>Student Edition: 59 #7, 60 #21-#24, 240-241, 244 #25, #26, 277 #5, 278 #23-#26, 324 #21, #22 <i>Data File</i> 324 <i>Real-World Example</i> 58, 59, 242, 243, 276, 277, 322, 323 <i>Real-World Problem Solving</i> 60 <i>Test Practice</i> 61, 269 #10, 279, 306 #3, #11</p> <p>Teacher Edition: IWO 240B</p>
12. Ratios and Proportions	
Not tested	
13. Computation with Percents	
Not tested	
14. Time	
<p>A. Solve problems involving time, elapsed time (minutes and hours) and calendars.</p>	<p>Student Edition: 520-523 <i>Chapter Test</i> 531 #15, #16 <i>Concepts and Skills</i> R63 <i>Extra Practice</i> R33 <i>Hands-On Mini Activity</i> 520 <i>Real-World Example</i> 521 <i>Real-World Problem Solving</i> 522 <i>Study Guide and Review</i> 530 <i>Test Practice</i> 523</p> <p>Teacher Edition: A 523; ATS 521; FMB 520A; IWO 520B; SGO 520B; TOD 523; W 52G, 482I</p>
<p>B. Solve problems involving conversions of measures of time.</p>	<p>The following page references can be use to meet this standard.</p> <p>Student Edition: <i>Check What You Know</i> 521 <i>Practice and Problem Solving</i> 522 <i>Real-World Examples</i> 521 <i>Real-World Problem Solving</i> 522</p> <p>Teacher Edition: T 520</p>

STANDARDS	PAGE REFERENCES
15. Approximating Measures	
<p>A. Estimate lengths and areas by comparing.</p>	<p>Student Edition: 441-443, 450-452 <i>Chapter Test</i> 479 #3, #4 <i>Explore</i> 439-440, 448-449 <i>Extra Practice</i> R28, R29 <i>Game Time</i> 463 <i>Key Concepts</i> 441, 450 <i>Mid-Chapter Check</i> 453 #1-#3 <i>Real-World Example</i> 441, 442, 450, 451, 461 <i>Study Guide and Review</i> 473, 475</p> <p>Teacher Edition: AE 442, 451; ATS 451; I 441; IWO 441B; SGO 441B; T 441, 450</p>
16. Customary and Metric Measures	
<p>A. Measure lengths to the nearest inch, half-inch or centimeter.</p>	<p>Student Edition: 441-443, 450-452 <i>Explore</i> 439-440, 448-449 <i>Extra Practice</i> R28, R29 <i>Key Concepts</i> 441 <i>Mid-Chapter Check</i> 453 #1, #2 <i>Real-World Example</i> 441, 450 <i>Study Guide and Review</i> 473 #6, 475 #18, #19</p> <p>Teacher Edition: I 439, 441; IWO 441B, 450B; SGO 441B, 450B; T 440</p>
<p>B. Draw lengths to the nearest inch, half-inch or centimeter.</p>	<p>This standard can be met by expanding on the following pages.</p> <p>Student Edition: 441-443</p> <p>Teacher Edition: S 436J; SS 436I</p>

STANDARDS	PAGE REFERENCES
C. Identify appropriate customary or metric units of measure for a given situation.	<p>Student Edition: 442, #3, #4, 443 #12, #13, 451 #3, #4, 452 #10, #11 <i>Chapter Test</i> 479 #3, #4 <i>Extra Practice</i> R28, R29 <i>Mid-Chapter Check</i> 453 #3, #7 <i>Real-World Example</i> 442, 451</p> <p>Teacher Edition: A 443; FMB 441A, 450A; I 448; T 441</p>
17. Geometric Shapes and Properties	
A. Identify 2-dimensional geometric shapes, including number of angles and sides of polygons.	<p>Student Edition: 362-365 <i>Are You Ready?</i> 358 #5-#11 <i>Extra Practice</i> R23 <i>Key Concepts</i> 362 <i>Mid-Chapter Check</i> 371 #4, #5, #7, #8 <i>Real-World Example</i> 362 <i>Start Smart</i> 11 <i>Study Guide and Review</i> 385 #10-#15</p> <p>Teacher Edition: ATS 363; ELL 362B; M 356H; T 362</p>
B. Identify, describe and draw 2-dimensional geometric shapes and figures.	<p>Student Edition: 362-365 <i>H.O.T. Problems</i> 365 <i>Real-World Problem Solving</i> 364</p> <p>Teacher Edition: A 365; ATS 363; IWO 362B</p>
18. Spatial Relationships	
Not tested	

STANDARDS		PAGE REFERENCES
19. Tables, Graphs and Charts		
A. Identify correct information from tables, bar graphs, pictographs and charts.	<p>Student Edition: 97 #9-#12, 109-110, 114 #6-#9 <i>Are You Ready?</i> 94 #6, #7 <i>Chapter Test</i> 139 #8 <i>Example</i> 108, 109 <i>Extra Practice</i> R8 <i>Mid-Chapter Check</i> 111 #2, #3, #8 <i>Real-World Example</i> 112 <i>Real-World Math</i> 121 <i>Start Smart</i> 12-13 <i>Study Guide and Review</i> 135 #18-#21 <i>Test Practice</i> 140 #1, #9</p> <p>Teacher Edition: AE 109; ATS 109; I 108; IWO 108B; T 95</p>	
B. Create bar graphs and pictographs from data in tables and charts.	<p>Student Edition: <i>Game Time</i> 115</p> <p>Teacher Edition: ELL 112B; IWO 112B; M 92J; R 92J; S 92I; SGO 108B; T 108; W 92I</p>	
20. Statistics and Data Analysis		
Not tested		
21. Probability		
A. Identify correct solutions to problems involving elementary notions of probability.	<p>Student Edition: 124-126, 128-130 <i>Example</i> 124, 125, 128, 129 <i>Explore</i> 122-123 <i>Extend</i> 131 <i>Extra Practice</i> R9 <i>H.O.T. Problems</i> 130 <i>Real-World Example</i> 129 <i>Study Guide and Review</i> 138</p> <p>Teacher Edition: ATS 129; I 128; IWO 128B; T 128</p>	

STANDARDS	PAGE REFERENCES
22. Patterns	
A. Identify the missing terms in a pattern, or identify rules for a given pattern using whole numbers and attributes.	<p>Student Edition: 206 <i>Are You Ready?</i> 144 #9-#12, 192 #15-#18 <i>Extra Practice</i> R13 <i>Mid-Chapter Check</i> 207 #15-#19 <i>Study Guide and Review</i> 227</p> <p>Teacher Edition: I 204; T 204</p>
B. Extend or complete patterns and state rules for given patterns using whole numbers and attributes.	<p>Student Edition: 206 <i>Are You Ready?</i> 192 #15-#18 <i>Extra Practice</i> R13 <i>Mid-Chapter Check</i> 207 #15-#19 <i>Study Guide and Review</i> 227</p> <p>Teacher Edition: ATS 205; IWO 204B; SGO 204B; T 204</p>
23. Algebraic Concepts	
A. Solve simple one-step algebraic equations involving addition, subtraction and fact families.	<p>Student Edition: 198-200 <i>Are You Ready?</i> 192 #1-#6 <i>Chapter Test</i> 231 #8, #9, #11 <i>Example</i> 199 <i>Explore</i> 196-197 <i>Extra Practice</i> R13 <i>Mid-Chapter Check</i> 207 #9-#12 <i>Real-World Example</i> 198, 199 <i>Real-World Problem Solving</i> 200 <i>Study Guide and Review</i> 225 <i>Test Practice</i> 232 #3</p> <p>Teacher Edition: AE 199; FMB 198A; NM 201; SGO 198B; T 198</p>
24. Classification and Logical Reasoning	
A. Solve logic, counting and classification problems involving the organization of data.	<p>Student Edition: 502-503 <i>H.O.T. Problems</i> 25 #40, 34 #20, 61 #29</p> <p>Teacher Edition: ATS 503; SGO 502B</p>

STANDARDS	PAGE REFERENCES
<p>B. Sort or classify objects, and draw logical conclusions from data including Venn diagrams and transitive reasoning questions.</p>	<p>The following pages, covering collection and organization of data, can be used to meet this standard.</p> <p>Student Edition: 95 <i>Check What You Know</i> 96 <i>Hands-On Mini Activity</i> 96 <i>Practice and Problem Solving</i> 97 <i>Real-World Example</i> 95</p>
<p>25. Mathematical Applications</p>	
<p>A. Solve extended numerical and statistical problems.</p>	<p>Student Edition: 41, 77, 119, 171, 219, 252, 295, 331, 381, 417, 467, 519, 565, 595, 635</p>