



# Math Connects

Concepts, Skills, and Problem Solving

Course 2

© 2009

STANDARDS	PAGE REFERENCES
<b>Grade Level Expectations</b>	
<b><i>M (N&amp;O)-7-1</i></b> <b><i>Rational Numbers</i></b>	
<b>Square roots of perfect squares</b>	
Compare percents of a whole when the wholes vary in magnitude	<b>Student Edition:</b> 202-205, 223, 344-348, 350-354, 684, 685, 710 <i>Math Lab</i> 342-343 <i>Practice Test</i> 225 #9, #18 <i>Reading to Solve Problems</i> 349 <b>Teacher Wraparound Edition:</b> AA 343, 347, 350, 351; AE 203, 345; DI 330; T 349
<b>Rates</b>	
Utilize models, explanations and other representations	<b>Student Edition:</b> 287-292, 293-297, 334, 338 #1-#2, 682, 709 <i>Practice Test</i> 337 <i>Real World Example</i> 144 <b>Teacher Wraparound Edition:</b> AA 291, 292, 296; AE 144, 288, 293, 294; TNT 288, 297

STANDARDS	PAGE REFERENCES
<p><b>Proportional Reasoning</b> <b>Percents</b></p>	
<p>Demonstrate conceptual understanding of:</p> <ul style="list-style-type: none"> <li>■ square roots of perfect squares</li> <li>■ the use of proportional reasoning as it relates to ratios, rates and percents</li> <li>■ percents as a way of expressing multiples of a number (200% of 50)</li> </ul>	<p><b>Student Edition:</b> 209, 328-332, 350-354, 379-382, 385, 388, 687, 710 <i>Math Lab</i> 342-343 <i>Practice Test</i> 389 <i>Spreadsheet Lab</i> 383</p> <p><b>Teacher Wraparound Edition:</b> AA 343, 354; AE 350, 351, 352, 380; FMC 351, 353</p>
<p><i>M (N&amp;O)-7-2</i> <i>Magnitude of Numbers</i></p>	
<p><b>Whole number bases with whole number exponents</b> <b>Integers</b> <b>Rational numbers (fractions, decimals, percents)</b> <b>Absolute value</b> <b>Scientific notation</b></p>	
<p>Order, compare, and identify equivalent rational numbers (fractions, decimals, percents) across number formats.</p>	<p><b>Student Edition:</b> 30-33, 84-87, 120, 215-220, 224, 226 #1-#2, LA2-LA5, 671, 679, 705 #1-#3, 707 #18 <i>Practice Test</i> 123, 225</p> <p><b>Teacher Wraparound Edition:</b> AA 219; AE 31, 85, 216, 217, LA3; T 215, LA2</p>
<p>Connect numbers to quantities using number lines or equality and inequality symbols</p>	<p><b>Student Edition:</b> 80-83, 84-87, 92 #52-#55, 120, 215-220, 224, LA2-LA5, 671, 679, 740-741 <i>Practice Test</i> 225</p> <p><b>Teacher Wraparound Edition:</b> AA 82, 87, 219; AE 81, 216</p>
<p><i>M (N&amp;O)-7-3</i> <i>Mathematical Operations</i></p>	
<p><b>Whole numbers with whole number exponents</b> <b>Integers</b></p>	
<p>Describe or illustrate using models, diagrams, or explanations</p>	<p><b>Student Edition:</b> 30-33, 37 #42-#45, 71, 668, 704 #2, 737 <i>Practice Test</i> 75 #2-#3</p> <p><b>Teacher Wraparound Edition:</b> FMC 31; ODI 30a; PA 33; T 30; TNT 35</p>

STANDARDS	PAGE REFERENCES
<p><i>M (N&amp;O)-7-4</i> <i>Solving Problems</i></p> <p>Addition and subtraction of integers  Numbers raised to whole number powers  Square roots of perfect square and non-perfect square numbers  Order of operations using parentheses, brackets and exponents  Proportional Reasoning  Percents involving discounts, tax or tips, and rates</p>	
<p>Solve problems incorporating content as listed</p>	<p><b>Student Edition:</b>  30-33, 34-37, 38-41, 42-43, 71, 72, 95-99, 103-106,  310-315, 375-378, 379-382  <i>Algebra Lab</i> 93-94, 101-102  <i>Practice Test</i> 75  <i>Spreadsheet Lab</i> 383  <b>Teacher Wraparound Edition:</b>  AE 31, 97, 104, 376, 380; FMC 35, 376; TNT 40</p>
<p><i>M (N&amp;O)-7-5</i> <i>Monetary Value</i></p> <p>None at this level</p>	
<p><i>M (N&amp;O)-7-6</i> <i>Mental Math</i></p> <p><i>Embed mental arithmetic throughout math instruction</i></p> <p>Mental computation strategies:  Use compatible numbers  Apply properties  Use mental imagery  Use patterns</p>	
<p>Mentally calculate benchmark perfect squares and square roots (<math>1^2, 2^2, \dots, 12^2, 15^2, 20^2, 100^2, 1000^2</math>)</p>	<p><b>Student Edition:</b>  30-33, 34-37, 41 #41, 71, 72, 668, 737  <i>Practice Test</i> 75  <b>Teacher Wraparound Edition:</b>  AE 31, 35; FMC 35; T 30, 34; TNT 35</p>
<p>Determine part of a number using benchmark percents and related fractions (1%, 10%, 25%, 33 1/3%, 50%, 66 2/3%, 75%, 100%)  ex. 33 1/3 % of 21 and 25% of 16</p>	<p><b>Student Edition:</b>  355-360, 361-365, 366-367, 375-378, 385, 387  <i>Practice Test</i> 389  <b>Teacher Wraparound Edition:</b>  AA 357, 358, 360, 389; AE 357, 362; DI 366;  FMC 356; T 361, 375; TNT 358, 364, 376</p>

STANDARDS	PAGE REFERENCES
<p><i>M (N&amp;O)-7-7</i> <i>Estimation</i></p> <p><i>Embed estimation throughout math instruction</i></p> <p><b>Estimation</b> <b>Tips, discounts and taxes</b></p>	
Identify when estimation is appropriate	<p><b>Student Edition:</b> 4-5, 234 #36, 235 #48, 343, 355-360, 366-367, 386, 686, 735, 750 <i>Practice Test</i> 389</p> <p><b>Teacher Wraparound Edition:</b> AA 25, 235, 343; T 355; TNT 358</p>
Select an appropriate method of estimation	<p><b>Student Edition:</b> 4-5, 230-235, 343, 355-360, 366-367, 377 #6-#17, 385, 386, 390 #4, 636-639, 679, 685, 686, 701, 735 <i>Practice Test</i> 389</p> <p><b>Teacher Wraparound Edition:</b> AA 25, 46, 343, 360; FMC 356, 637; T 355; TNT 230, 358</p>
Determine the level of accuracy needed for a situation	<p><b>Student Edition:</b> 4-5, 355-360, 366-367, 385, 386, 636-639, 686, 701, 708 #1-#2, 735, 750 <i>Practice Test</i> 389</p> <p><b>Teacher Wraparound Edition:</b> AA 359; DI 639; TNT 358</p>
Analyze effect of estimate on accuracy of results	<p><b>Student Edition:</b> 4-5, 25, 355-360, 366-367, 385, 386, 390 #4, 636-639, 686, 701, 735, 750 <i>Practice Test</i> 389</p> <p><b>Teacher Wraparound Edition:</b> AA 25, 46, 359, 360; DI 639; T 230</p>
Evaluate the reasonableness of solution	<p><b>Student Edition:</b> 4-5, 25, 235 #47, 237, 358 #39, 359 #48, 360 #50, 366-367, 386, 636-639, 641, 645 #28, 686, 710 #7, 750 <i>Practice Test</i> 389</p> <p><b>Teacher Wraparound Edition:</b> AA 25, 359, 360, 367; AE 366; DI 366, 639; F 248</p>

STANDARDS	PAGE REFERENCES
<p><i>M (N&amp;O)-7-8</i> <i>Properties</i></p> <p><i>Embed properties throughout math instruction</i></p>	
<p><b>Number Properties:</b> Odd and even numbers, positive and negative numbers, prime factorization, divisibility and remainders</p>	
<p>Apply number properties to simplify computations and solve problems with remainders</p>	<p><b>Student Edition:</b> 80-83, 84-87, 95-99, 103-106, 107-111, 114-118, 181-184 <i>Algebra Lab</i> 93, 101 <i>Math Lab</i> 180 <i>Mid-Chapter Quiz</i> 100 <i>Practice Test</i> 123 <i>Reading to Solve Problems</i> 185 <b>Teacher Wraparound Edition:</b> AA 99; AE 96, 104, 115, 182; T 185; TNT 97</p>
<p><b>Field properties:</b> commutative, associative, identity (including <math>2^0 \times 2^3 = 2^{0+3} = 2^3</math>), distributive, inverses (additive and multiplicative)</p>	
<p>Demonstrate conceptual understanding of field properties as they apply to subsets of the real numbers (ex. Set of whole numbers does not have additive inverse, set of integers does not have multiplicative inverse)</p>	<p><b>Student Edition:</b> 33 #43, 53-56, 70, 95-99, 107-111, 119, 258-263, 670, 681 <i>Practice Test</i> 75 <b>Teacher Wraparound Edition:</b> AE 54, 259; FMC 54, 96, 108; PA 106, 262; TNT 53</p>
<p><i>M (G&amp;M)-7-1</i> <i>Sorting and Classifying</i></p>	
<p>Adjacent angles, vertical angles, straight angles, and angle relationships formed by parallel and nonparallel lines cut by a transversal</p>	
<p>Use properties and attributes of angle relationships resulting from two or three intersecting lines</p>	<p><b>Student Edition:</b> 510-513, 533, 534, 536 #24, 537 #40-#45, LA10-LA13, 693, 694 #4-#6, 721 #8, 725 #12 <i>Practice Test</i> 539 #13-#15 <b>Teacher Wraparound Edition:</b> A LA13; AA 512, 513, 537, LA13; AE 512, LA11; DI LA12; FMC 511</p>

STANDARDS		PAGE REFERENCES
<p><i>M (G&amp;M)-7-2</i> <i>Applies Theorems or Relationships</i></p>		
<p>Sums of interior angles of regular polygons Triangle Inequality</p>		
<p>Solve problems using sums of interior angles of regular polygons</p>	<p><b>Student Edition:</b> 525, 527 #6, 528 #39, 529 #46, 538 #52, 546-551, 566 #24, 567 #13, 695</p> <p><b>Teacher Wraparound Edition:</b> AA 529; AE 526, 547; FMC 547; PA 529, 548</p>	
<p><i>M (G&amp;M)-7-3</i> <i>3-Dimensional Shapes</i></p>		
<p>None at this level</p>		
<p><i>M (G&amp;M)-7-4</i> <i>Congruency</i></p>		
<p>Congruency on the coordinate plane Transformations</p>		
<p>Solve problems of congruency on the coordinate plane involving reflections, translations and rotations</p>	<p><b>Student Edition:</b> 546-551, 553-557, 558-562, 566, 696, 713, 724 #11, 729 #13, 743-744</p> <p><i>Geometry Lab</i> 552 <i>Practice Test</i> 567</p> <p><b>Teacher Wraparound Edition:</b> A 552; AA 556, 559, 560; AE 548, 554, 555, 559; FMC 554; PA 556; TNT 561</p>	
<p><i>M (G&amp;M)-7-5</i> <i>Similarity</i></p>		
<p>Similarity of polygons and circles</p>		
<p>Solve problems and determine the effect of scaling (up or down) and the impact on angle measures, linear dimensions and areas of polygons, and circles when the linear dimensions are multiplied by a constant factor</p>	<p><b>Student Edition:</b> 540-545, 546-551, 557 #28, 563, 565, 567, LA14-LA17, 695, 724 #10</p> <p><i>Mid-Chapter Quiz</i> 539 <i>Practice Test</i> 567 <i>Study Guide and Review</i> 563, 565</p> <p><b>Teacher Wraparound Edition:</b> A 545; AE 541, 542; FMC 541; TNT 542</p>	

STANDARDS	PAGE REFERENCES
<b>Areas of similar polygons and circles</b>	
Describe effects using models or explanations	<b>Student Edition:</b> 545 #20, LA14-LA17, 732 #4 <i>Mini Lab</i> 540 <b>Teacher Wraparound Edition:</b> AA LA17; DI 541, 545; T 540; TNT LA16
<i>M (G&amp;M)-7-6</i> <i>Perimeter/Area/Volume</i>	
<b>Area of a circle</b> <b>Area and perimeter/circumference of composite figures (quadrilaterals, triangles, parts of circles)</b> <b>Surface area of rectangular prisms</b> <b>Volume of triangular prisms, rectangular prisms, and cylinders</b>	
Determine perimeter/circumference, area and volume using formulas, models or by solving related problems	<b>Student Edition:</b> 156-161, 572-576, 578-582, 584-588, 589-593, 594, 596-599, 613-618, 619-623, 627, 628, 697, 699, 700, 714 <b>Teacher Wraparound Edition:</b> AE 157, 572, 579, 590, 597; FMC 579
Express measures in appropriate units	<b>Student Edition:</b> 156-161, 320-326, 572-576, 584-588, 589-593, 613-618, 619-623, 649-653, 656-659, 702, 703, 715 <b>Teacher Wraparound Edition:</b> AE 156, 157, 573, 615

STANDARDS	PAGE REFERENCES
<p><i>M (G&amp;M)-7-7</i> <i>Measurement</i></p> <p><i>Embed measurement throughout math instruction</i></p> <p>Length (inch, foot, centimeter, meter, yard, mile, kilometer, 12in=1ft, 100cm=1m, 3ft=1yd, 10mm=1cm, 1000mm=1m, to 1/16 inch, to 0.1 cm, to .001m,)</p> <p>Time (hour, day, year, 24hrs=1 day, 7 days=1 week, 365 days=1 year, 60 sec=1 min, 60min=1 hr, to 1 minute intervals)</p> <p>Temperature (Celsius and Farenheit to 1 degree)</p> <p>Capacity (quart, gallon, pint, liter 32oz=1qt, 4qts=1 gal., 2pts=1qt, 1000ml=1L, to 1oz)</p> <p>Mass (gram, kilogram)</p> <p>Weight (pound, ounces, 16oz=1lb., to 1oz)</p> <p>Angles and Rotation (degree, ° 360 = 1circle, ° 90 = right angle, to 2 degrees)</p>	
<p>Measure using appropriate units for length, time, temperature, capacity, mass and weight</p>	<p><b>Student Edition:</b> 12-13, 149 #6, 298-303, 304-309, 320-326, 572-576, 578-582, 584-588, 613-618, 619-623, 697, 701, 714, 748-749 <i>Practice Test</i> 631</p> <p><b>Teacher Wraparound Edition:</b> AA 302; AE 305, 573; DI 116; PA 302; T 12; TNT 304, 614</p>
<p>Solve problems and make conversions for length, time and mass</p>	<p><b>Student Edition:</b> 194 #27, 245 #34, 298-303, 304-309, 320-326, 335, 682, 683, 709, 747 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <i>Spreadsheet Lab</i> 327</p> <p><b>Teacher Wraparound Edition:</b> AA 302; AE 299, 300, 305, 321; DI 116; FMC 299, 305; PA 302, 325</p>
<p><i>M (G&amp;M)-7-8</i> <i>Time</i></p> <p>None at this level</p>	

STANDARDS	PAGE REFERENCES
<p><i>M (G&amp;M)-7-9</i> <i>Spatial Relationships</i></p>	
<p>None at this level</p>	
<p><i>M (G&amp;M)-7-10</i> <i>Spatial Reasoning and Visualization</i></p>	
<p>Consistent with skills in <i>M (G&amp;M) –7-6</i></p>	
<p>3-D solids</p>	
<p>Sketch 3-D solids</p>	<p><b>Student Edition:</b> 607, 608-612, 618 #31, 623 #38-#39, 629, 700, 745-746</p> <p><b>Teacher Wraparound Edition:</b> AA 611, 618, 623; AE 609; PA 611; T 608</p>
<p>Nets</p>	
<p>Draw nets of rectangular and triangular prisms, cylinders and pyramids</p>	<p><b>Student Edition:</b> <i>Measurement Lab</i> 600-601</p> <p><b>Teacher Wraparound Edition:</b> AA 601; DI 603; FMC 604; TNT 601</p>
<p>Surface Area</p>	
<p>Use nets to find surface area</p>	<p><b>Student Edition:</b> <i>Measurement Lab</i> 600-601</p> <p><b>Teacher Wraparound Edition:</b> A 601; F 600; T 600; TNT 601</p>
<p><i>M (F&amp;A)-7-1</i> <i>Patterns</i></p>	
<p>Identify and extend to specific cases a variety of patterns (linear and nonlinear) represented in models, tables, sequences, graphs, or problem situations</p>	
<p>Generalize a linear relationship using words and symbols for a specific case</p>	<p><b>Student Edition:</b> 57-61, 74, 112-113, 146 #45, 162-167, 172, 249 #9</p> <p><i>Algebra Lab</i> 62</p> <p><i>Graphing Calculator Lab</i> 168</p> <p><i>Measurement Lab</i> 162</p> <p><i>Practice Test</i> 75</p> <p><b>Teacher Wraparound Edition:</b> AA 59, 60, 61; AE 58, 59, 112, 164, 165; EC 62</p>

STANDARDS	PAGE REFERENCES
Write an expression or equation using words or symbols to express the generalization of a nonlinear relationship	<b>Student Edition:</b> 379-382, 425 #6-#7, 426-431, 444-449, 454 <i>Math Lab</i> 316 <i>Practice Test</i> 455 <b>Teacher Wraparound Edition:</b> A 316, 382; AE 445; T 316; TNT 382
<i>M (F&amp;A)-7-2</i> <i>Rates of Change</i>	
<b>Linear relationships (<math>y=kx</math> and <math>y=mx+b</math>) as a constant rate of change</b>	
Solve problems involving relationship of slope and rate of change	<b>Student Edition:</b> 293-297, 303 #47, 309 #47, 314, 333, 334, 682, 709 #5-#6, 724 #8, 728 #8, 732 #2 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <b>Teacher Wraparound Edition:</b> A 296; AA 295, 296, 297, 314; AE 294; TNT 297
Describe the meaning of slope in concrete situations	<b>Student Edition:</b> 293-297, 309 #47, 314, 333, 334, 709 #5, 724 #8, 728 #8, 732 #2 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <b>Teacher Wraparound Edition:</b> AA 295, 296, 297, 314; AE 294; TNT 297
Determine the slope of a line from a table or graph	<b>Student Edition:</b> 293-297, 309 #47, 314, 333, 334, 709 #5, 724 #8, 728 #8, 732 #2 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <b>Teacher Wraparound Edition:</b> AA 295, 296, 297, 314; AE 294; TNT 297
Distinguish between constant and various rates of change in relation to tables and graphs	<b>Student Edition:</b> 287-292, 293-297, 303 #47, 314, 333, 334, 682 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <b>Teacher Wraparound Edition:</b> A 296; AA 296, 297, 314; AE 293, 294

STANDARDS	PAGE REFERENCES
Describe how a change in the value of one variable relates to a change in the value of the second variable in problem situations with constant rates of change	<b>Student Edition:</b> 293-297, 303 #47, 314, 333, 334, 682, 709 #6, 732 #2 <i>Mid-Chapter Quiz</i> 317 <i>Practice Test</i> 337 <b>Teacher Wraparound Edition:</b> A 296; AA 296, 297, 314; FMC 294; TNT 297
<i>M (F&amp;A)-7-3</i> <i>Algebraic Expressions</i> <b>Algebraic expressions</b> (including those with whole number exponents or more than one variable)	
Use letters to represent unknown quantities to write linear algebraic expressions	<b>Student Edition:</b> 9, 40 #34, 41 #39, 42, 53-56, 72 #33, 98 #28-#31, 111 #54, 128-133, 155 #36-#37, 170, 674, 704 #4, #9, 706 #1, 718 <i>Mid-Chapter Quiz</i> 147 <i>Practice Test</i> 173 <b>Teacher Wraparound Edition:</b> AA 98; AE 39, 64, 129; T 128
Evaluate algebraic expressions within an equation (find $y$ when $x = 4$ , given $y = 5x^3 - 2$ )	<b>Student Edition:</b> 44-47, 48 #16-#19, 52 #36, 61 #45-#47, 66 #15-#18, 73, 75 #9-#12, 156-161, 172, 613-618, 619-623, 669, 675, 700, 701, 704 #4 <b>Teacher Wraparound Edition:</b> AE 45, 156, 614, 615; DI 158
<i>M (F&amp;A)-7-4</i> <i>Equality</i> <b>Equality</b>	
Show equivalence between two expressions using models or different representations	<b>Student Edition:</b> 136-141, 142-146, 151-155, 161 #45-#49, 170, 171, 674, LA6-LA9 <i>Algebra Lab</i> 134-135 <i>Mid-Chapter Quiz</i> 147 <b>Teacher Wraparound Edition:</b> AA 135; AE 137, 143, 152; FMC 143; T 136; TNT 136

STANDARDS	PAGE REFERENCES
Solve multi-step linear equations of the form $ax \pm b = c$ , $ax \pm b = cx \pm d$ , and $(x/a) \pm b = c$ where $a, b, c$ are whole numbers, $a \neq 0$ and $c \neq 0$ .	<p><b>Student Edition:</b> 49-52, 63-67, 74, 128-133, 136-141, 151-155, 156-161, 170-171, LA6-LA9, 670, 674, 675, 748 <i>Algebra Lab</i> 134-135 <i>Practice Test</i> 173</p> <p><b>Teacher Wraparound Edition:</b> A 135; AE 129, 130, 137, 138, 152, 153, 157; T 134, 136; TNT 151</p>
Translate problem-solving situations into an equation	<p><b>Student Edition:</b> 25-29, 33 #45-#46, 51 #20-#21, 139 #21-#24, 234, 262, 287-292, 314, 325, 347, 473, 704-715 <i>Real World Example</i> 97, 104, 307, 585</p> <p><b>Teacher Wraparound Edition:</b> AE 26, 27, 238, 289, 345, 585</p>
<p><i>M (DSP)-7-1</i> <i>Interpret a Given Representation</i></p> <p><i>Consistent with skills in M (DSP)- 7-2</i></p>	
<p>Data interpretation Data representations: Circle graphs Scatter plots (discrete linear relationships) Histograms</p>	
Analyze data to: formulate or justify conclusions make predictions solve problems	<p><b>Student Edition:</b> 396-401, 402-408, 410-414, 415-421, 424-425, 426-431, 434-437, 688, 689, 711 <i>Graphing Calculator Lab</i> 409 <i>Practice Test</i> 455 <i>Spreadsheet Lab</i> 422</p> <p><b>Teacher Wraparound Edition:</b> AA 413, 422; AE 398, 403, 405, 411, 417, 424, 427, 435</p>

STANDARDS	PAGE REFERENCES
<p><i>M (DSP)-7-2</i> <i>Analyze Data</i></p>	
<p>Patterns, trends or distributions in data Outliers</p>	
<p>Analyze patterns, trends and distributions in data using measures of central tendency (median, mean, mode), dispersion (range or variation), or outliers to analyze situations to determine their effect on mean, median, mode</p>	<p><b>Student Edition:</b> 402-408, 410-414, 421 #33-#34, 451, LA21-LA25, 687, 721 #14, 725 #19-#20 <i>Graphing Calculator Lab</i> 409 <i>Mid-Chapter Quiz</i> 423 <i>Practice Test</i> 455</p> <p><b>Teacher Wraparound Edition:</b> AA 406; AE 403, 404, 405, 411; FMC 403, 404; TNT 409, 411</p>
<p>Bias</p>	
<p>Evaluate the sample from which the statistics were developed (bias)</p>	<p><b>Student Edition:</b> 438-443, 444-449, 454, 464 #37-#38, 690, 711 #11-#12 <i>Practice Test</i> 455</p> <p><b>Teacher Wraparound Edition:</b> AA 442, 443; AE 439, 445, 446; FMC 439, 445; TNT 440</p>
<p><i>M (DSP)-7-3</i> <i>Organize and Display Data</i></p>	
<p><i>Consistent with skills in M (DSP)-7-2</i></p>	
<p>Data representations: Tables Line graphs Scatter plots Circle graphs</p>	
<p>Identify the best representation for data</p>	<p><b>Student Edition:</b> 396-401, 410-414, 415-421, 451, 452, 688 <i>Spreadsheet Lab</i> 422, 432-433</p> <p><b>Teacher Wraparound Edition:</b> AA 418, 420; FMC 412, 416; TNT 399, 415, 416, 421</p>

STANDARDS	PAGE REFERENCES
Organize and display data	<p><b>Student Edition:</b> 25-29, 190-191, 222 #20-#21, 248-249, 396-401, 410-414, 415-421, 424-425, 426-431, LA21-LA25, 687, 688, 689, 711 <i>Spreadsheet Lab</i> 422, 432</p> <p><b>Teacher Wraparound Edition:</b> AE 190, 397, 411, 416; DI 191; EA 400; P 249</p>
Answer questions related to the data	<p><b>Student Edition:</b> 396-401, 402-408, 410-414, 415-421, 424-425, 426-431, 434-437, 444-449, LA21-LA25, 711 <i>Graphing Calculator Lab</i> 409 <i>Practice Test</i> 455</p> <p><b>Teacher Wraparound Edition:</b> AE 398, 404, 417, 424, 427, 445</p>
Analyze data to form and justify conclusions, make predictions and solve problems	<p><b>Student Edition:</b> 396-401, 402-408, 410-414, 415-421, 424-425, 426-431, 434-437, 438-443, 444-449, LA21-LA25, 711 <i>Graphing Calculator Lab</i> 409 <i>Practice Test</i> 455</p> <p><b>Teacher Wraparound Edition:</b> AA 413; AE 404, 411, 417, 427, 428, 435</p>
Analyze data using measures of central tendency	<p><b>Student Edition:</b> 402-408, 410-414, 421 #33-#34, 451, LA21-LA25, 687, 711, 725 #19-#21 <i>Graphing Calculator Lab</i> 409 <i>Mid-Chapter Quiz</i> 423 <i>Practice Test</i> 455</p> <p><b>Teacher Wraparound Edition:</b> A 409; AA 407, 447, 449; AE 403, 405, 411; FMC 403, 404</p>
<p><i>M (DSP)-7-4</i> <i>Counting Techniques</i></p>	
	<p><b>Strategies:</b> organized lists, tables, tree diagrams, models, Fundamental Counting Principle</p>
Utilize counting techniques to solve combination and permutation problems in context	<p><b>Student Edition:</b> 186, 190-191, 426-431, 438-443, 444-449, 475-478, 480-483, 484-485, 533-538, LA14-LA17, 690, 691 <i>Geometry Lab</i> 532</p> <p><b>Teacher Wraparound Edition:</b> AA 537; AE 476; DI 481; FMC 476; TNT 533</p>

STANDARDS	PAGE REFERENCES
<i>M (DSP)-7-5</i> <i>Probability</i>	
<b>Experimental and theoretical probability</b>	
Predict the theoretical probability of an event	<b>Student Edition:</b> 460-464, 465-470, 473 #11-#12, 474 #23-#24, 492-497, 692, 693 <i>Mid-Chapter Quiz</i> 479 <i>Practice Test</i> 503 <i>Real World Example</i> 472, 476 <b>Teacher Wraparound Edition:</b> AA 464; AE 461, 462, 467; FMC 461
Test predictions through experiments and simulations	<b>Student Edition:</b> 484, 486-490 <i>Mini Lab</i> 465 <i>Probability Lab</i> 491 <b>Teacher Wraparound Edition:</b> A 490, 491; AA 484; AE 484; DI 464, 491; PA 490; T 486, 491; TNT 465, 484, 486
Compare and contrast theoretical and experimental probability	<b>Student Edition:</b> 484, 486-490, 502, 692, 712 #10 <i>Mini Lab</i> 465 <i>Probability Lab</i> 491 <b>Teacher Wraparound Edition:</b> A 490; AA 484; DI 491; FMC 487; T 491; TNT 484, 486, 488
Determine the theoretical or experimental probability of an event in a problem solving situation	<b>Student Edition:</b> 460-464, 465-470, 473 #11-#12, 474 #23-#24, 484, 486-490, 492-497, 500, 502, 690, 693, 712 <i>Practice Test</i> 503 <i>Real World Example</i> 472, 476 <b>Teacher Wraparound Edition:</b> AE 461, 467, 488, 492, 494

STANDARDS	PAGE REFERENCES
<p><i>M (DSP)-7-6</i> <i>Experimental Design</i></p> <p><i>Consistent with skills in M (DSP)- 7-2</i></p>	
<p><b>Independent experimental design</b> <b>(In response to a teacher or student generated question or hypothesis)</b></p>	
<p>Determine most effective method of data collection (survey, observation, experimentation)</p>	<p><b>Student Edition:</b> 414 #26, 419 #12, 436 #16, 443 #26, 474 #17 <i>Graphing Calculator Lab</i> 409 <i>Mini Lab</i> 465 <i>Spreadsheet Lab</i> 422, 433 #2</p> <p><b>Teacher Wraparound Edition:</b> DI 490; PA 407, 437; T 426, 438; TNT 440</p>
<p>Collect, organize and display data</p>	<p><b>Student Edition:</b> 400 #30, 413 #22, 414 #26, 419 #12, 424, 430 #18-#19, <i>Graphing Calculator Lab</i> 409 <i>Spreadsheet Lab</i> 422, 433 #2</p> <p><b>Teacher Wraparound Edition:</b> A 421, 431; EA 400; PA 407; T 444; TNT 399, 416, 440</p>
<p>Analyze data to draw conclusions and make predictions about question or hypothesis being tested</p>	<p><b>Student Edition:</b> 400 #30, 407 #24, 413 #22, 414 #26, 419 #12, 424, 426-431, 436 #16, 442 #24, 474 #17 <i>Graphing Calculator Lab</i> 409 <i>Mini Lab</i> 465 <i>Spreadsheet Lab</i> 422</p> <p><b>Teacher Wraparound Edition:</b> A 425; F 424; PA 407, 425, 430; T 426; TNT 428, 440</p>
<p>Analyze the data considering limitations that could affect interpretations</p>	<p><b>Student Edition:</b> 400 #30, 407 #25, 413 #22, 424, 436 #16, 443 #25-#26, 449 #12-#13 <i>Spreadsheet Lab</i> 422, 433 #2</p> <p><b>Teacher Wraparound Edition:</b> A 421, 443; PA 430; T 426, 438; TNT 440, 448</p>

STANDARDS	PAGE REFERENCES
Ask new question based on results	<p><b>Student Edition:</b> 400 #30, 419 #12 <i>Mini Lab</i> 465</p> <p><b>Teacher Wraparound Edition:</b> PA 430; T 426, 438; TNT 440</p>
Make connections to real-world situations	<p><b>Student Edition:</b> 400 #30, 414 #26, 424, 430 #17, 436 #14, 442 #24, 443 #25, 478 #17, 483 #17 <i>Spreadsheet Lab</i> 422</p> <p><b>Teacher Wraparound Edition:</b> A 421, 431; PA 425; T 438; TNT 440</p>