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correlated to

Tennessee

Mathematics State Performance Indicators

Grades 3-8



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Summer Success: Math © 2000
and
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correlated to
Tennessee Mathematics State Performance Indicators
Third Grade

NUMBERS AND OPERATIONS

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>3.1.spi.1. count by 10ths, 100ths, and 1000ths;</p>	<p>Teacher's Edition: 49, 59, 62, 85, 118, 120, 123</p>	<p>Handbook: 18, 19, 107</p>
<p>3.1.spi.2. identify whole numbers as odd or even;</p>	<p>Teacher's Edition: 17, 18, 21, 26, 27, 29, 31, 33, 34, 40, 46, 49, 50, 53, 63, 65, 79, 83, 85, 94, 97, 104, 107, 118, 121, 123</p>	<p>Handbook: 91</p>
<p>3.1.spi.3. add and subtract efficiently and accurately with single-digit whole numbers.</p>	<p>Teacher's Edition: 17, 27, 29, 31, 32, 33, 35, 36, 40, 42, 43, 45, 47, 49, 54, 55, 56, 58, 63, 78, 79, 81</p>	<p>Handbook: 34-45, 46-59, 417</p>

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>3.1.spi.4. represent whole numbers to 9999 with models;</p>	<p>Teacher's Edition: 56, 59, 62, 64, 82</p>	<p>Handbook: 3, 5-8</p>
<p>3.1.spi.5. identify the place value of a given digit up to thousands;</p>	<p>Teacher's Edition: 30, 34, 37, 39, 45, 47, 56, 59, 62, 63, 64, 78, 82, 86, 96, 101, 104, 108, 112</p>	<p>Handbook: 2-7</p>
<p>3.1.spi.6. recognize the value of combinations of coins and bills up to \$5;</p>	<p>Teacher's Edition: 18, 33, 57, 60, 63, 70, 92, 103, 123</p>	<p>Handbook: 17-21</p>
<p>3.1.spi.7. compare and order whole numbers to 9999 using the appropriate symbol (i.e., <, >, =);</p>	<p>Teacher's Edition: 58, 76, 91, 101</p>	<p>Handbook: 12-13, 14-15</p>
<p>3.1.spi.8. add two- and/or three-digit whole numbers;</p>	<p>Teacher's Edition: 18, 26, 27, 31, 34, 40, 43, 47, 53, 65, 67, 68, 70, 74, 76, 79, 85, 90, 91, 92, 94, 97, 99, 101, 103, 104, 110, 114, 117, 119, 120, 122</p>	<p>Handbook: 146-153, 428</p>
<p>3.1.spi.9. connect written and pictorial representations of fractions with denominators up to ten;</p>	<p>Teacher's Edition: 26, 38, 60, 87, 98, 104, 110, 113, 116, 118, 124</p>	<p>Handbook: 212-216, 430</p>
<p>3.1.spi.10. solve real-world problems using addition or subtraction of whole numbers;</p>	<p>Teacher's Edition: 52, 78</p>	<p>Handbook: 34-35, 38, 41, 46-47, 50-52, 148-151, 160-164, 167, 385, 389, 394-395</p>

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
3.1.spi.11. determine the correct change from a transaction that is less than \$1.00;	Teacher's Edition: 26, 38, 54, 60, 61, 63, 96	Handbook: 20-21
3.1.spi.12. use estimation to select a reasonable solution in problem solving (addition and subtraction only).	Teacher's Edition: 89	Handbook: 132-135, 394-395, 410
<i>At level 3, the student is able to</i> 3.1.spi.13. represent whole numbers up to 10,000 in expanded form (e.g., $1000^{\circ}\text{s} + 100^{\circ}\text{s} + 10^{\circ}\text{s} + 1^{\circ}\text{s}$);	Teacher's Edition: 40, 68, 79, 99, 112, 117	Handbook: 5-7
3.1.spi.14. compare unit fractions with denominators up to ten;	Teacher's Edition: 103, 104, 107, 108, 113, 116, 118	Handbook: 224-225, 430
3.1.spi.15. subtract two- and/or three-digit whole numbers;	Teacher's Edition: 27, 35, 43, 47, 52, 53, 56, 61, 63, 64, 65, 68, 74, 76, 78, 83, 88, 89, 90, 94, 96, 97, 101, 103, 106, 117, 119, 120, 122	Handbook: 159-167, 428
3.1.spi.16. use the multiplication facts 0, 1, 2, 5, and 10 efficiently and accurately.	Teacher's Edition: 17, 18, 22, 26, 33, 34, 36, 42, 69, 71, 75, 115	Handbook: 66-73

A L G E B R A

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>3.2.spi.1. sort objects by two attributes.</p>	<p>Teacher's Edition: 78, 102, 105</p>	
<p><i>At level 2, the student is able to</i></p> <p>3.2.spi.2. extend repeating and growing numerical or geometric patterns;</p>	<p>Teacher's Edition: 17, 18, 26, 29, 31, 33, 38, 43, 49, 65, 71, 92, 106, 114, 118, 123, 124</p>	<p>Handbook: 374-375</p>
<p>3.2.spi.3. represent repeating geometric patterns as repeating numerical patterns;</p>	<p>Teacher's Edition: 38, 45</p>	<p>Handbook: 91</p>
<p>3.2.spi.4. determine the output for a particular input given the one operation function rule (i.e., addition, subtraction);</p>	<p>Teacher's Edition: 70, 96</p>	<p>Handbook: 260-261</p>
<p>3.2.spi.5. solve open sentences that involve addition and subtraction of whole numbers zero to twenty.</p>	<p>Teacher's Edition: 17, 52, 55, 68, 117</p>	<p>Handbook: 250, 256</p>
<p><i>At level 3, the student is able to</i></p> <p>3.2.spi.6. identify the rules by which objects or numbers have been sorted;</p>	<p>Teacher's Edition: 14, 70, 74, 106</p>	<p>Handbook: 18, 19</p>

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
3.2.spi.7. connect open sentences to real-world situations.	Teacher's Edition: 52, 67	Handbook: 255-256

G E O M E T R Y

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>3.3.spi.1. name two-dimensional geometric figures (i.e., rectangle, square, triangle, circle).</p>	Teacher's Edition: 9, 18, 26, 29, 31, 33, 38, 42, 45, 67, 68, 70, 74, 102, 103, 105, 123	Handbook: 311-316
<p><i>At level 2, the student is able to</i></p> <p>3.3.spi.2. name three-dimensional geometric figures (i.e., cube, cylinder, sphere, cone);</p>	Teacher's Edition: 96, 99, 103, 106, 110, 114, 117, 123	Handbook: 326-329
3.3.spi.3. recognize geometric figures that are the same size and shape;	Teacher's Edition: 52, 58	Handbook: 317-320
3.3.spi.4. use appropriate mathematical language to find a point on a grid using whole number coordinates.		Handbook: 258-259

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At level 3, the student is able to</i></p> <p>3.3.spi.5. identify the result of a transformation that has been applied to a simple two-dimensional geometric shape (i.e., flips or slides);</p>	<p>Teacher’s Edition: 114</p>	<p>Handbook: 318-319</p>
<p>3.3.spi.6. identify the line of symmetry in a two-dimensional design or shape.</p>	<p>Teacher’s Edition: 60, 81, 102, 105</p>	<p>Handbook: 322-323</p>

M E A S U R E M E N T

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>3.4.spi.1. read and write time to the nearest hour, half-hour, and quarter-hour;</p>	<p>Teacher’s Edition: 26, 38, 49, 70, 123</p>	<p>Handbook: 334-335</p>
<p>3.4.spi.2. measure length to the nearest centimeter and inch;</p>	<p>Teacher’s Edition: 18, 26, 29, 45, 52, 67, 87, 89</p>	<p>Handbook: 345-347</p>
<p>3.4.spi.3. solve real-world problems using a calendar.</p>		<p>Handbook: 341-343</p>

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>3.4.spi.4. solve real-world problems involving addition and subtraction of one-or two-digit measurements;</p>	<p>Teacher’s Edition: 29, 52, 67, 74</p>	<p>Handbook: 349, 351</p>
<p>3.4.spi.5. select an appropriate standard unit to measure length;</p>	<p>Teacher’s Edition: 14</p>	<p>Handbook: 346-347</p>
<p>3.4.spi.6. use estimation to determine if a length measurement is reasonable;</p>	<p>Teacher’s Edition: 14, 18, 26, 29, 42, 45, 52, 67, 85</p>	<p>Handbook: 346-347, 421</p>
<p>3.4.spi.7. read thermometers with Fahrenheit and Celsius scales (positive whole number temperatures);</p>	<p>Teacher’s Edition: 74</p>	<p>Handbook: 360-361</p>
<p>3.4.spi.8. read and write time at five-minute intervals.</p>	<p>Teacher’s Edition: 18, 25, 26, 28, 29, 33, 42, 45, 56, 88, 89</p>	<p>Handbook: 335</p>
<p><i>At level 3, the student is able to</i></p> <p>3.4.spi.9. find the perimeter of a rectangle on a grid;</p>	<p>Teacher’s Edition: 67</p>	<p>Handbook: 353</p>
<p>3.4.spi.10. solve real-world problems involving elapsed time to the half-hour.</p>	<p>Teacher’s Edition: 60, 81</p>	<p>Handbook: 338-339</p>

DATA ANALYSIS

Third Grade Benchmarks	Summer Success: Math, Grade 3	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>3.5.spi.1. interpret pictographs.</p>	<p>Teacher's Edition: 70, 438</p>	<p>Handbook: 270-271</p>
<p><i>At level 2, the student is able to</i></p> <p>3.5.spi.2. interpret bar graphs;</p>	<p>Teacher's Edition: 26, 29, 33, 49, 67, 88, 117, 120, 123</p>	<p>Handbook: 273-277, 438</p>
<p>3.5.spi.3. solve real-world problems in which data is represented in tables;</p>	<p>Teacher's Edition: 70, 88, 110</p>	<p>Handbook: 268, 284-290</p>
<p>3.5.spi.4. determine whether an event is certain, possible, or impossible.</p>	<p>Teacher's Edition: 100</p>	<p>Handbook: 292-293</p>
<p><i>At level 3, the student is able to</i></p> <p>3.5.spi.5. determine the most likely, least likely, or equally likely outcomes in simple experiments (i.e., spinner, number or color cube);</p>	<p>Teacher's Edition: 100</p>	<p>Handbook: 291-296</p>
<p>3.5.spi.6. select all possible outcomes of a simple experiment (i.e., spinner, coin toss, number or color cube).</p>	<p>Teacher's Edition: 100</p>	<p>Handbook: 298-299</p>



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Fourth Grade

NUMBERS AND OPERATIONS

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>4.1.spi.1. represent whole numbers to 9999;</p>	<p>Teacher's Edition: 14, 17, 18, 28, 29, 30, 31, 38, 45, 47, 49, 50, 53, 64, 67, 71, 94, 120, 121</p>	<p>Handbook: 2-7</p>
<p>4.1.spi.2. compare and order whole numbers to 9999 using the appropriate symbol (<, >, =);</p>	<p>Teacher's Edition: 30, 34, 37, 64</p>	<p>Handbook: 12-13, 14-15</p>
<p>4.1.spi.3. solve one-step real-world problems involving addition or subtraction of whole numbers.</p>	<p>Teacher's Edition: 76, 86, 106</p>	<p>Handbook: 34-35, 38, 41, 46-47, 50-52, 148-151, 160-164, 167, 385, 389, 394-395</p>

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>4.1.spi.4. read and write numbers from hundred-thousands to hundredths;</p>	<p>Teacher’s Edition: 14, 17, 18, 28, 29, 30, 31, 36, 38, 45, 47, 49, 50, 53, 54, 64, 67, 71, 74, 78, 92, 94, 120, 121</p>	<p>Handbook: 2-10</p>
<p>4.1.spi.5. identify the place value of a given digit from hundred-thousands to hundredths;</p>	<p>Teacher’s Edition: 8, 14, 17, 26, 28, 30, 38, 42, 45, 47, 50, 53, 54, 63, 64, 76, 78, 79, 81, 83, 86, 100, 110, 120, 121</p>	<p>Handbook: 2-10</p>
<p>4.1.spi.6. identify fractions as parts of whole units, as parts of sets, as locations on number lines, and as divisions of whole numbers;</p>	<p>Teacher’s Edition: 18, 47, 48, 51, 55, 60, 79, 90, 94, 97, 99, 101, 102, 105, 107, 124</p>	<p>Handbook: 209-215, 430</p>
<p>4.1.spi.7. multiply efficiently and accurately with single-digit whole numbers;</p>	<p>Teacher’s Edition: 14, 17, 18, 26, 27, 29, 31, 33, 39, 40, 42, 45, 49, 59, 62, 66, 67, 69, 72, 77, 80, 82, 95, 98, 108, 115</p>	<p>Handbook: 66-73, 415, 417</p>
<p>4.1.spi.8. use estimation to select a reasonable solution to a whole number computation involving addition, subtraction, or multiplication;</p>	<p>Teacher’s Edition: 37, 56, 63, 85, 95, 98, 109, 123, 124</p>	<p>Handbook: 132-138, 394-395, 410</p>
<p>4.1.spi.9. add and subtract decimals (includes monetary units);</p>	<p>Teacher’s Edition: 9, 33, 42, 56, 63, 67, 68, 78, 81, 83, 88, 120</p>	<p>Handbook: 154-158, 168-171, 416</p>
<p>4.1.spi.10. represent whole numbers up to 10,000 in expanded form ($1000^{\circ}\llbracket s + 100^{\circ}\llbracket s + 10^{\circ}\llbracket s + 1^{\circ}\llbracket s$);</p>	<p>Teacher’s Edition: 30, 47, 64, 65</p>	<p>Handbook: 5-7</p>

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
4.1.spi.11. add and subtract fractions with like denominators.	Teacher's Edition: 29, 78, 92, 96, 91, 101, 103, 104, 106	Handbook: 227-228, 232
<i>At level 3, the student is able to</i> 4.1.spi.12. represent numbers as both improper fractions and mixed numbers;	Teacher's Edition: 70, 74, 78, 99, 106	Handbook: 217-219
4.1.spi.13. generate equivalent forms of whole numbers, commonly used fractions, and decimals;	Teacher's Edition: 57, 60, 65, 70, 74, 78, 79, 94, 101, 103, 106, 107, 108, 124	Handbook: 26, 220, 430
4.1.spi.14. solve one-step real-world problems involving addition, subtraction, or multiplication of whole numbers and/or decimals.	Teacher's Edition: 14, 27, 40, 103, 106, 117	Handbook: 34-35, 38, 41, 46-47, 50-52, 60-61, 64, 68, 72-73

A L G E B R A

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<i>At Level 1, the student is able to</i> 4.2.spi.1. solve open sentences involving addition and subtraction.	Teacher's Edition: 14, 17, 21, 22, 29, 34, 38, 47, 49, 56, 67, 68, 78, 81, 83, 88, 92, 96, 101, 103, 104, 108, 112, 114, 117, 118	Handbook: 250, 256

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>4.2.spi.2. extend numerical and geometric patterns;</p>	<p>Teacher's Edition: 9, 14, 17, 18, 26, 29, 33, 34, 49, 52, 53, 56, 78, 81, 85, 96, 99, 103, 110</p>	<p>Handbook: 374-375</p>
<p>4.2.spi.3. determine the function rule for data in a function table</p>	<p>Teacher's Edition: 18</p>	<p>Handbook: 260-261</p>
<p>4.2.spi.4. connect open sentences to real-world situations;</p>	<p>Teacher's Edition: 27, 29, 40, 49, 88, 103, 104</p>	<p>Handbook: 255-256</p>
<p>4.2.spi.5. solve open sentences involving multiplication and division.</p>	<p>Teacher's Edition: 14, 17, 18, 22, 27, 29, 31, 38, 43, 45, 49, 52, 53, 61, 74, 78, 84, 85, 88, 95, 97, 99, 103, 104, 107, 110, 114, 115, 117, 119, 123, 124</p>	<p>Handbook: 257</p>
<p><i>At level 3, the student is able to</i></p> <p>4.2.spi.6. apply basic function rules.</p>	<p>Teacher's Edition: 14, 18, 26, 29, 33, 38, 42, 45, 49, 52, 56, 60</p>	<p>Handbook: 260-261</p>

G E O M E T R Y

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>4.3.spi.1. identify points, lines, and rays.</p>		<p>Handbook: 302-305, 454, 460, 462</p>

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>4.3.spi.2. recognize congruent geometric figures;</p>	Teacher's Edition: 37, 40, 44, 49, 63, 103	Handbook: 317-319
<p>4.3.spi.3. identify lines of symmetry for two-dimensional geometric figures;</p>	Teacher's Edition: 29, 31, 37, 40, 41, 44, 47, 85	Handbook: 322
<p>4.3.spi.4. identify the result of a transformation (flip or slide) that has been applied to a simple two-dimensional geometric shape.</p>	Teacher's Edition: 9, 27, 41, 44, 45, 81, 91, 99, 104	Handbook: 318-319
<p><i>At level 3, the student is able to</i></p> <p>4.3.spi.5. identify two- or three-dimensional shapes given defining attributes;</p>	Teacher's Edition: 18, 29, 31, 33, 34, 38, 40, 41, 42, 44, 45, 47, 49, 57, 60, 74, 78, 81, 83, 85, 89, 92, 96, 97, 99, 101, 103, 113, 116	Handbook: 311-316
<p>4.3.spi.6. locate and specify points in Quadrant I of a coordinate system.</p>	Teacher's Edition: 112	Handbook: 258-261

M E A S U R E M E N T

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>4.4.spi.1. read temperature using Fahrenheit and Celsius scales.</p>		Handbook: 360-361

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At level 2, the student is able to</i></p> <p>4.4.spi.2. find the perimeter of rectangles;</p>	<p>Teacher’s Edition: 70, 94</p>	<p>Handbook: 262, 349</p>
<p>4.4.spi.3. tell time on the minute;</p>	<p>Teacher’s Edition: 115</p>	<p>Handbook: 334-336</p>
<p>4.4.spi.4. measure length to the nearest 1/4 inch or nearest centimeter;</p>	<p>Teacher’s Edition: 32, 35, 38</p>	<p>Handbook: 420-421</p>
<p>4.4.spi.5. use estimation to determine if a length or volume measurement is reasonable;</p>	<p>Teacher’s Edition: 26, 35, 37, 78, 83, 110</p>	<p>Handbook: 345-347, 356-357, 420-421</p>
<p>4.4.spi.6. solve real-world problems involving addition and subtraction of measurements;</p>	<p>Teacher’s Edition: 38, 52, 70, 76, 88, 94, 106, 121</p>	<p>Handbook: 349, 351</p>
<p>4.4.spi.7. solve real-world problems involving elapsed time to the quarter-hour.</p>	<p>Teacher’s Edition: 27, 78, 107</p>	<p>Handbook: 338-339</p>
<p><i>At level 3, the student is able to</i></p> <p>4.4.spi.8. apply the formula for finding area of a rectangle;</p>	<p>Teacher’s Edition: 18, 61, 94</p>	<p>Handbook: 263, 352-353</p>
<p>4.4.spi.9. select the appropriate standard units to measure length, perimeter, area, capacity, volume, weight, time, temperature, and angles.</p>	<p>Teacher’s Edition: 58, 63, 78, 83, 85, 93, 90, 94, 106, 108, 109, 110, 114</p>	<p>Handbook: 346-350, 354, 356-361, 411, 431-432</p>

DATA ANALYSIS

Fourth Grade Benchmarks	Summer Success: Math, Grade 4	Math to Know
<p><i>At Level 1, the student is able to</i></p> <p>4.5.spi.1. interpret data displayed in bar graphs and pictographs.</p>	<p>Teacher’s Edition: 9, 29, 33, 49, 52, 55, 78, 85, 86, 88, 91, 96, 99, 103, 106, 114, 117, 120, 123</p>	<p>Handbook: 270-277</p>
<p><i>At level 2, the student is able to</i></p> <p>4.5.spi.2. connect data in tables to pictographs, line graphs, or bar graphs;</p>	<p>Teacher’s Edition: 29, 49, 85, 96, 109, 114, 117</p>	<p>Handbook: 270-277, 280-281</p>
<p>4.5.spi.3. determine the most likely, least likely, or equally likely outcomes in simple experiments;</p>	<p>Teacher’s Edition: 55, 65, 68, 71, 83</p>	<p>Handbook: 291-296</p>
<p>4.5.spi.4. select all possible outcomes of a simple experiment (i.e., spinner, coin toss, number or color cube);</p>	<p>Teacher’s Edition: 73, 83, 85</p>	<p>Handbook: 298-299</p>
<p><i>At level 3, the student is able to</i></p> <p>4.5.spi.5. determine the median of a data set.</p>		<p>Handbook: 286-287</p>



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Fifth Grade

NUMBERS AND OPERATIONS

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At Level 1, the student is able to</i></p> <p>5.1.spi.1. read and write numbers from millions to thousandths;</p>	<p>Teacher's Edition: 14, 17, 18, 21, 26, 27, 29, 33, 34, 36, 38, 42, 45, 49, 52, 54, 56, 60, 63, 64, 67, 70, 74, 77, 78, 80, 81, 83, 85, 88</p>	<p>Handbook: 004-006, 013-014</p>
<p>5.1.spi.2. connect symbolic representations of proper and improper fractions to models of proper and improper fractions;</p>	<p>Teacher's Edition: 16, 65, 94, 95, 101, 112, 115</p>	<p>Handbook: 019, 020, 028-031, 033-034, 035, 037, 038</p>
<p>5.1.spi.3. represent whole numbers and two-place decimals in expanded form.</p>	<p>Teacher's Edition: 18, 21, 37, 47, 63, 67, 77</p>	<p>Handbook: 004, 006, 012, 013</p>

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At level 2, the student is able to</i></p> <p>5.1.spi.4. add, subtract, multiply, and divide whole numbers (multipliers and divisors no more than two-digits).</p>	<p>Teacher's Edition: 16, 18, 22, 25, 26, 28, 30, 31, 32, 33, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 50, 51, 52, 56, 58, 60, 61, 64, 65, 68, 71, 74, 75, 76, 78, 81, 82, 85, 92, 94, 96, 97, 99, 101, 103, 110, 111, 117, 118</p>	<p>Handbook: 118-124, 127-134, 136-141, 144-152, 447, 481-482</p>
<p>5.1.spi.5. identify the place value of a given digit from millions to thousandths;</p>	<p>Teacher's Edition: 18, 21, 46, 64, 66, 69, 100</p>	<p>Handbook: 004, 005, 012, 015</p>
<p>5.1.spi.6. represent, compare, and order whole numbers and decimals to thousandths;</p>	<p>Teacher's Edition: 8, 9, 17, 21, 22, 27, 34, 37, 46, 50, 54, 58, 60, 61, 65, 66, 67, 70, 78, 79, 81, 83, 88, 93</p>	<p>Handbook: 004-010, 012-018</p>
<p>5.1.spi.7. use estimation to select a reasonable solution to a whole number computation;</p>	<p>Teacher's Edition: 32, 35, 38, 39, 42, 43, 45, 48, 49, 51, 72, 82</p>	<p>Handbook: 093-095, 101, 103-107, 109-114, 413, 436, 454</p>
<p>5.1.spi.8. add, subtract, and multiply decimals;</p>	<p>Teacher's Edition: 55, 57, 60, 63, 66, 67, 68, 69, 70, 71, 72, 73, 74, 76, 78, 79, 81, 83, 85, 86, 90, 100, 106, 110, 121, 122</p>	<p>Handbook: 125-126, 135, 142-143, 448</p>
<p>5.1.spi.9. solve one- or two-step real-world problems involving addition, subtraction, and/or multiplication of whole numbers and decimals;</p>	<p>Teacher's Edition: 26, 29, 33, 45, 57, 60, 67, 74, 79, 85, 86, 88, 118</p>	<p>Handbook: 120, 122, 124, 127, 130, 132, 133, 138, 139, 143</p>
<p>5.1.spi.10. represent numbers as both improper fractions and mixed numbers;</p>	<p>Teacher's Edition: 16, 94</p>	<p>Handbook: 034</p>

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
5.1.spi.11. compare and order fractions using the appropriate symbol (<,>=);	Teacher's Edition: 16, 90, 93, 104, 107, 108, 112, 114	Handbook: 038-042
5.1.spi.12. add and subtract commonly used fractions.	Teacher's Edition: 76, 92, 96, 97, 98, 99, 103, 106, 108, 112, 114, 115, 117, 120, 123	Handbook: 157-166, 450-451,
<i>At level 3, the student is able to</i> 5.1.spi.13. generate equivalent forms of commonly used fractions, decimals, and percents (e.g., 1/10, 1/4, 1/2, 3/4);	Teacher's Edition: 16, 26, 56, 60, 63, 70, 74, 78, 79, 81, 85, 88, 91, 92, 93, 94, 95, 96, 98, 99, 101, 103, 104, 106, 107, 108, 110, 113, 115, 117, 120, 123	Handbook: 019, 020, 043, 044, 189, 190, 482-483
5.1.spi.14. multiply a fraction by a multiple of its denominator (denominator less than or equal to 10)	Teacher's Edition: 92, 96, 97, 96, 99, 103, 106, 120	Handbook: 168

A L G E B R A

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<i>At Level 1, the student is able to</i> 5.2.spi.1. extend numerical patterns;	Teacher's Edition: 9, 17, 18, 22, 26, 27, 31, 33, 34, 36, 37, 38, 40, 42, 45, 49, 52, 53, 56, 58, 60, 61, 63, 67, 68, 70, 71, 72, 74, 78, 79, 81, 85, 86, 92, 96, 99, 103, 106, 114, 117, 120, 121, 123	Handbook: 059, 063, 065, 401-402, 494-498
5.2.spi.2. extend geometric patterns.	Teacher's Edition: 56, 60	Handbook: 381, 494-495

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At level 2, the student is able to</i></p> <p>5.2.spi.3. apply basic function rules;</p>	<p>Teacher’s Edition: 40, 49, 52, 53</p>	<p>Handbook: 244, 245, 407</p>
<p>5.2.spi.4. connect open sentences to real-world situations;</p>	<p>Teacher’s Edition: 52, 106, 114, 120</p>	<p>Handbook: 241-245</p>
<p>5.2.spi.5. solve open sentences involving addition, subtraction, multiplication, and division.</p>	<p>Teacher’s Edition: 22, 29, 40, 43, 50, 52, 60, 61, 63, 71, 81, 85, 88, 96, 99, 106, 110, 114, 120</p>	<p>Handbook: 242-243</p>
<p><i>At level 3, the student is able to</i></p> <p>5.2.spi.6. generalize numerical patterns using a variable;</p>		<p>Handbook: 244-245</p>
<p>5.2.spi.7. select an equation that represents a given mathematical relationship;</p>	<p>Teacher’s Edition: 99</p>	<p>Handbook: 241-245, 406</p>
<p>5.2.spi.8. extend rate charts to solve real-world problems.</p>	<p>Teacher’s Edition: 40, 53</p>	<p>Handbook: 400</p>

G E O M E T R Y

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At Level 1, the student is able to</i></p> <p>5.3.spi.1. identify lines, line segments, rays, and angles;</p>	<p>Teacher’s Edition: 63, 68, 83, 86, 118, 124</p>	<p>Handbook: 337-339, 344-345</p>
<p>5.3.spi.2. identify lines of symmetry in two-dimensional geometric figures.</p>	<p>Teacher’s Edition: 16, 60, 104, 124</p>	<p>Handbook: 380</p>
<p><i>At level 2, the student is able to</i></p> <p>5.3.spi.3. identify two- or three-dimensional shapes given defining attributes;</p>	<p>Teacher’s Edition: 8, 14, 59, 63, 76, 83, 109</p>	<p>Handbook: 356-367, 382-383, 385-386, 388, 390, 392</p>
<p>5.3.spi.4. use spatial reasoning to predict the result of sliding, flipping, or turning a two-dimensional shape;</p>	<p>Teacher’s Edition: 62, 68, 109, 118</p>	<p>Handbook: 375-377, 379</p>
<p>5.3.spi.5. locate and specify a point in Quadrant I of a coordinate system.</p>	<p>Teacher’s Edition: 55, 65, 89, 124</p>	<p>Handbook: 245, 265-266</p>
<p><i>At level 3, the student is able to</i></p> <p>5.3.spi.6. classify geometric figures using properties;</p>	<p>Teacher’s Edition: 8, 14, 59, 62, 63, 76, 83, 109</p>	<p>Handbook: 356-367, 382-383, 385-386, 388, 390, 392</p>

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
5.3.spi.7. use spatial reasoning to identify the three-dimensional figure created from a two-dimensional representation (net) of that figure (i.e., cube, rectangular prism, pyramid, cone, or cylinder).	Teacher’s Edition: 115	Handbook: 384, 387, 389, 391

M E A S U R E M E N T

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<i>At Level 1, the student is able to</i> 5.4.spi.1. read temperature using Fahrenheit and Celsius scales;		Handbook: 319-321
5.4.spi.2. use a ruler to measure to the nearest centimeter and 1/4 inch;	Teacher’s Edition: 56, 96	Handbook: 465
5.4.spi.3. use estimation to determine if a length or volume measurement is reasonable;	Teacher’s Edition: 42	Handbook: 294, 314-315, 487
5.4.spi.4. solve real-world problems involving addition and subtraction of measurements.	Teacher’s Edition: 14, 18, 31, 38, 47, 67, 83, 86, 88	Handbook: 295-297, 307, 308, 324, 328-330, 465

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At level 2, the student is able to</i></p> <p>5.4.spi.5. select appropriate standard units to measure length, perimeter, area, capacity, volume, weight, time, temperature, and angles;</p>	<p>Teacher’s Edition: 80, 115, 116, 118</p>	<p>Handbook: 294, 295, 298, 299, 309, 314, 315, 317, 318, 320, 321, 322, 467</p>
<p>5.4.spi.6. connect simple units of measurement within the same system of measurement;</p>	<p>Teacher’s Edition: 14, 18, 33, 36, 38, 70, 74, 77, 80, 81, 85, 88</p>	<p>Handbook: 294, 314, 315, 317, 318, 485, 486</p>
<p>5.4.spi.7. use strategies to estimate perimeter and area of rectangles;</p>	<p>Teacher’s Edition: 42, 49</p>	
<p>5.4.spi.8. solve real-world problems involving elapsed time.</p>	<p>Teacher’s Edition: 92, 96</p>	<p>Handbook: 324</p>
<p><i>At level 3, the student is able to</i></p> <p>5.4.spi.9. apply formulas to find the area of parallelograms and triangles;</p>	<p>Teacher’s Edition: 56, 86, 97, 121</p>	<p>Handbook: 297, 301-303, 508, 509, 510</p>
<p>5.4.spi.10. solve real-world problems involving perimeter and area of rectangles.</p>	<p>Teacher’s Edition: 17, 18, 29, 92, 96</p>	<p>Handbook: 295, 301, 408</p>

DATA ANALYSIS

Fifth Grade Benchmarks	Summer Success: Math, Grade 5	Math at Hand
<p><i>At Level 1, the student is able to</i></p> <p>5.5.spi.1. represent data using bar graphs and pictographs;</p>	<p>Teacher’s Edition: 29, 49, 85, 117</p>	<p>Handbook: 272-275</p>
<p>5.5.spi.2. interpret data displayed in bar graphs and pictographs.</p>	<p>Teacher’s Edition: 33, 88, 106, 123</p>	<p>Handbook: 273-275</p>
<p><i>At level 2, the student is able to</i></p> <p>5.5.spi.3. determine the median of a data set;</p>	<p>Teacher’s Edition: 47, 52, 60, 63, 67, 70, 71, 88, 106, 120, 124</p>	<p>Handbook: 261, 513</p>
<p>5.5.spi.4. determine the mode of a data set;</p>	<p>Teacher’s Edition: 33, 52, 63, 67, 70, 71, 88, 106, 120, 124</p>	<p>Handbook: 262, 513</p>
<p>5.5.spi.5. determine the most likely, least likely, or equally likely outcomes in simple experiments;</p>	<p>Teacher’s Edition: 14, 18, 38, 42, 123</p>	<p>Handbook: 285-286</p>
<p>5.5.spi.6. represent the likelihood of an event using a fractional number from zero to one.</p>	<p>Teacher’s Edition: 91, 104, 124</p>	<p>Handbook: 286-287</p>
<p><i>At level 3, the student is able to</i></p> <p>5.5.spi.7. determine the mean of a data set;</p>	<p>Teacher’s Edition: 47, 60, 63, 67, 70, 71, 88, 106, 120, 124</p>	<p>Handbook: 260</p>
<p>5.5.spi.8. make predictions based on data.</p>	<p>Teacher’s Edition: 18, 33, 42, 49, 52, 63, 67, 106</p>	<p>Handbook: 263, 286, 288</p>



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Tennessee Mathematics State Performance Indicators
Sixth Grade

NUMBERS AND OPERATIONS

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
<p><i>At Level 1, the student is able to</i></p> <p>6.1.spi.1. identify the place value of a given digit;</p>	<p>Teacher's Edition: 62, 96, 99, 104, 106, 110, 111, 114, 117, 120, 121, 123</p>	<p>Handbook: 004, 005, 012-015, 157, 162</p>
<p>6.1.spi.2. solve one-step real-world problems involving whole numbers and decimals.</p>	<p>Teacher's Edition: 14, 18, 49, 52, 56, 70, 85, 96, 106, 114, 115, 120, 123, 124</p>	<p>Handbook: 074, 076, 077, 080-083, 088, 120, 122, 124, 130, 132, 133, 138-140, 143, 144, 147-150, 154, 155, 415</p>
<p><i>At level 2, the student is able to</i></p> <p>6.1.spi.3. represent numbers using a variety of models and equivalent forms (i.e., whole numbers, mixed numbers, fractions, decimals, and percents);</p>	<p>Teacher's Edition: 8, 9, 14, 17, 18, 21, 22, 25, 26, 27, 28, 29, 31, 32, 33, 34, 35, 36, 38, 40, 42, 45, 46, 47, 49, 52, 53, 56, 58, 60, 63, 67, 70, 90, 96, 97, 99, 103, 104, 106, 110, 112, 113, 114, 116, 117, 120, 121, 123, 124</p>	<p>Handbook: 003-007, 011-015, 019-022, 028-037, 043, 044, 157, 162, 189, 190, 483</p>

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.1.spi.4. connect whole numbers, mixed numbers, fractions, and decimals to locations on the number line;	Teacher’s Edition: 18, 22, 26, 29, 33, 37, 38, 42, 45, 49, 52	Handbook: 015, 031, 035, 040, 081, 082, 095, 098, 099, 101, 161, 165, 193, 194, 195
6.1.spi.5. compare and order whole numbers, fractions, decimals, and percents using the appropriate symbol (<, >, =);	Teacher’s Edition: 8, 17, 21, 22, 31, 36, 43, 46, 81, 103, 104, 124	Handbook: 008-010, 016-018, 038-042, 191
6.1.spi.6. identify prime and composite numbers up to 50;	Teacher’s Edition: 60, 61, 63, 66, 67, 68, 69, 70, 73, 74, 78, 83	Handbook: 053-055
6.1.spi.7. apply order of operations when computing with whole numbers (no parentheses or exponents);	Teacher’s Edition: 64, 91, 96, 98, 99, 101, 103, 109	Handbook: 212, 214, 442
6.1.spi.8. use estimation to select a reasonable solution to a computation involving whole numbers, fractions, and/or decimals;	Teacher’s Edition: 37, 51, 91, 99, 101, 103, 106, 114, 115, 117, 118, 120, 123	Handbook: 093-116, 406, 436, 454
6.1.spi.9. compute efficiently and accurately with whole numbers, fractions, and decimals.	Teacher’s Edition: 9, 14, 17, 18, 22, 25, 26, 27, 28, 29, 30, 31, 33, 36, 38, 39, 40, 42, 43, 45, 47, 49, 52, 56, 57, 58, 60, 63, 64, 67, 70, 74, 75, 77, 80, 82, 91, 96, 97, 99, 103, 106, 107, 109, 110, 111, 112	Handbook: 118-155, 158-161, 163-176, 447-448, 450-451, 481-482
<p><i>At level 3, the student is able to</i></p> <p>6.1.spi.10. connect ratios to a variety of models, real-world situations, and symbolic representations;</p>	Teacher’s Edition: 29, 33, 52, 55, 60, 63, 67, 70, 74, 78, 88, 106, 108, 115	Handbook: 177-189

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.1.spi.11. select a reasonable solution to a real-world division problem in which the remainder must be considered.	Teacher's Edition: 42	Handbook: 148, 149, 413

A L G E B R A

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
<i>At Level 1, the student is able to</i> 6.2.spi.1. extend geometric and numerical patterns.	Teacher's Edition: 14, 18, 29, 31, 33, 34, 38, 40, 45, 49, 50, 52, 56, 58, 61, 63, 76, 81, 88, 96, 99, 110, 114, 117	Handbook: 059, 063, 065, 381, 401-402, 494-498
<i>At level 2, the student is able to</i> 6.2.spi.2. generalize patterns in data represented in tables;	Teacher's Edition: 34, 36, 49	Handbook: 244-245, 401
6.2.spi.3. apply function rules;	Teacher's Edition: 18, 29, 33, 38	Handbook: 244-245, 407
6.2.spi.4. find missing addends or factors represented as variables in simple equations;	Teacher's Edition: 17, 22, 94	Handbook: 242-243
6.2.spi.5. extend rate charts to solve real-world problems;	Teacher's Edition: 18	Handbook: 400

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.2.spi.6. select an equation that represents a given mathematical relationship.	Teacher's Edition: 31, 38, 42, 49, 52, 64, 72, 78, 81, 85, 88, 110, 114	Handbook: 241-245, 406
<i>At level 3, the student is able to</i> 6.2.spi.7. evaluate algebraic expressions for a given value of the variable.	Teacher's Edition: 82, 98	Handbook: 239

G E O M E T R Y

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
<i>At Level 1, the student is able to</i> 6.3.spi.1. identify parallel, perpendicular, and intersecting lines;	Teacher's Edition: 58	Handbook: 340-342
6.3.spi.2. use ordered pairs to describe given points in Quadrant I of a coordinate system.	Teacher's Edition: 117	Handbook: 245, 265-266
<i>At level 2, the student is able to</i> 6.3.spi.3. classify two-dimensional geometric figures using properties;	Teacher's Edition: 14, 38, 42, 43, 47, 61, 65, 68, 79	Handbook: 356-367

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.3.spi.4. identify the results of transformations of two-dimensional figures (i.e., rotations/turns, flips/reflections, slides/translations);	Teacher's Edition: 45, 47, 49, 50, 81	Handbook: 375-377, 379
6.3.spi.5. use spatial reasoning to identify the three-dimensional figure created from a two-dimensional representation (net) of that figure (i.e., cube, rectangular prism, pyramid, cone, or cylinder);	Teacher's Edition: 106, 107, 110, 112, 114, 117, 120, 121	Handbook: 384, 387, 389, 391
6.3.spi.6. classify angles as acute, obtuse, right, or straight.	Teacher's Edition: 38, 42, 43, 45, 47, 49, 50, 115	Handbook: 347
<i>At level 3, the student is able to</i> 6.3.spi.7. classify quadrilaterals using their defining properties.	Teacher's Edition: 65	Handbook: 364-366

M E A S U R E M E N T

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
<i>At Level 1, the student is able to</i> 6.4.spi.1. use strategies to estimate perimeter and area of rectangles ;	Teacher's Edition: 44	Handbook: 108

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.4.spi.2. solve real-world problems involving elapsed time.	Teacher’s Edition: 18, 81	Handbook: 324
<i>At level 2, the student is able to</i> 6.4.spi.3. convert from one unit to another within the same system	Teacher’s Edition: 14, 18, 26, 29, 33, 38, 42, 45, 49, 52, 56, 74, 78, 85, 88, 89, 96, 97, 99, 101, 103	Handbook: 294, 314, 315, 317, 318, 485, 486
6.4.spi.4. select units of appropriate size and type to measure angles, perimeter, area, capacity, volume, and weight;	Teacher’s Edition: 14, 33, 34, 38, 42, 52, 60, 63, 65, 78, 97, 103, 106, 107, 110, 112, 118, 120, 124	Handbook: 294, 295, 298, 299, 309, 314, 315, 317, 318, 437, 467
6.4.spi.5. apply formulas to determine the area of rectangles and triangles;	Teacher’s Edition: 52, 78	Handbook: 301, 303, 509, 510
6.4.spi.6. use scales to read maps;		Handbook: 489
6.4.spi.7. solve real-world problems involving perimeter and area of rectangles;	Teacher’s Edition: 52, 78	Handbook: 296, 297, 301, 408
6.4.spi.8. determine the distance between two points on the x- or the y-axis in Quadrant I.		Handbook: 266
<i>At level 3, the student is able to</i> 6.4.spi.9. solve problems involving ratios and proportions.	Teacher’s Edition: 55, 60, 63, 67, 70, 74, 78, 88, 106	Handbook: 178-180, 182-188, 193-195

DATA ANALYSIS

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
<p><i>At Level 1, the student is able to</i></p> <p>6.5.spi.1. determine the mode of a data set.</p>	<p>Teacher’s Edition: 74, 81</p>	<p>Handbook: 262, 513</p>
<p><i>At level 2, the student is able to</i></p> <p>6.5.spi.2. interpret bar and line graphs to answer questions and solve real-world problems;</p>	<p>Teacher’s Edition: 52, 70, 88, 106, 120</p>	<p>Handbook: 272-274, 277-279, 407</p>
<p>6.5.spi.3. determine the mean of a data set;</p>	<p>Teacher’s Edition: 74, 81</p>	<p>Handbook: 260, 512</p>
<p>6.5.spi.4. determine the median from a stem-and-leaf-plot;</p>	<p>Teacher’s Edition: 74, 81</p>	<p>Handbook: 261, 284, 513</p>
<p>6.5.spi.5. determine if a sample is biased;</p>	<p>Teacher’s Edition: 38</p>	<p>Handbook: 251-252, 288-289</p>
<p>6.5.spi.6. represent the likelihood of an event using a number from 0 °V 1.</p>	<p>Teacher’s Edition: 56, 70</p>	<p>Handbook: 286-287</p>
<p><i>At level 3, the student is able to</i></p> <p>6.5.spi.7. connect data sets and their graphical representations (i.e., bar graphs, circle, graphs, and stem-and-leaf plots);</p>	<p>Teacher’s Edition: 29, 49, 52, 63, 67, 85, 88, 99, 103, 110, 117, 123</p>	<p>Handbook: 264, 269-284</p>

Sixth Grade Benchmarks	Summer Success: Math, Grade 6	Math at Hand
6.5.spi.8. make conjectures and predictions based on data;	Teacher's Edition: 33, 52, 56, 70, 88, 92, 106, 120	Handbook: 257-263, 274, 276, 278, 279, 282, 284, 286-287
6.5.spi.9. use a tree diagram or organized list to determine all possible outcomes of a simple compound event.	Teacher's Edition: 56	Handbook: 291-292



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Seventh Grade

NUMBERS AND OPERATIONS

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>7.1.spi.1. identify prime and composite numbers up to 50;</p>	<p>Teacher's Edition: 75, 77, 78, 84</p>	<p>Handbook: 058-060, 542</p>
<p>7.1.spi.2. compute efficiently and accurately with whole numbers, fractions, and decimals.</p>	<p>Teacher's Edition: 14, 18, 21, 25, 26, 28, 290, 30, 32, 35, 36, 38, 39, 42, 43, 45, 48, 49, 50, 51, 52, 53, 62, 74, 76, 81, 82, 85, 86, 87, 89, 92, 96, 99, 103, 104, 107, 112, 120, 122</p>	<p>Handbook: 087-107, 109-135, 137-163, 165-1192, 194-199</p>

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<p><i>At level 2, the student is able to</i></p> <p>7.1.spi.3. represent numbers using a variety of equivalent forms (i.e., mixed numbers, fractions, decimals, percents, and integers);</p>	<p>Teacher’s Edition: 8, 14, 18, 22, 26, 27, 28, 29, 31, 33, 34, 37, 38, 40, 42, 45, 46, 47, 49, 50, 52, 53, 56, 58, 60, 61, 63, 65, 68, 70, 98, 105</p>	<p>Handbook: 011-017, 022-030, 033, 036-038, 042-049, 441-442, 538</p>
<p>7.1.spi.4. compare rational numbers using the appropriate symbol (<, >, =);</p>	<p>Teacher’s Edition: 17, 21, 30, 36, 37, 39, 52, 55, 60, 61, 67, 70, 96, 99</p>	<p>Handbook: 007-008, 018-019, 039-040, 048</p>
<p>7.1.spi.5. identify the opposite and the reciprocal of a rational number;</p>	<p>Teacher’s Edition: 54, 56, 58, 59, 60, 61, 71</p>	<p>Handbook: 046-047, 188-192, 224</p>
<p>7.1.spi.6. connect percents greater than 100 and percents less than one to real-world situations;</p>	<p>Teacher’s Edition: 85, 86, 89</p>	<p>Handbook: 442, 446, 447, 449, 453</p>
<p>7.1.spi.7. apply order of operations when computing with whole numbers (no more than two parentheses and no exponents);</p>	<p>Teacher’s Edition: 18, 29, 33, 34, 79, 81, 83, 96, 103, 112</p>	<p>Handbook: 207-208, 210</p>
<p>7.1.spi.8. solve one- and two-step real-world problems involving whole numbers, fractions, and decimals;</p>	<p>Teacher’s Edition: 14, 17, 18, 22, 29, 38, 42, 43, 44, 45, 48, 49, 50, 52, 56, 62, 74, 78, 80, 85, 88, 92, 96, 99, 101, 103, 106, 107, 110, 114, 120, 122</p>	<p>Handbook: 089-095, 097, 099, 101, 106-107, 115, 117-122, 124, 126, 128-129, 134-135, 142-144, 146, 148-151, 153-155, 159, 161-163, 171, 175-176, 178, 180-183, 185-192, 478-479</p>

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
7.1.spi.9. use estimation strategies to select a reasonable solution to a computation involving rational numbers;	Teacher's Edition: 36, 38, 39, 46	Handbook: 092-095, 102, 114, 120-124, 149-151, 176-178
7.1.spi.10. select a reasonable solution to a real-world division problem in which the remainder must be considered.	Teacher's Edition: 63	Handbook: 180-182
<i>At level 3, the student is able to</i> 7.1.spi.11. connect rational numbers to locations on the number line;	Teacher's Edition: 43, 49, 54, 56, 58, 61, 65, 67	Handbook: 007, 010, 035, 036, 040, 042, 046, 048, 049, 050, 108, 118, 119, 136, 230
7.1.spi.12. use ratios to represent quantitative relationships.	Teacher's Edition: 8, 14, 25, 26, 29, 33, 36, 52, 78, 81, 85, 88, 110, 116, 117	Handbook: 423-427, 429

A L G E B R A

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<i>At Level 1, the student is able to</i> 7.2.spi.1. extend geometric and numerical patterns;	Teacher's Edition: 14, 17, 18, 26, 27, 29, 31, 33, 34, 38, 40, 42, 45, 49, 52, 53, 60, 65, 67, 74, 76, 78, 79, 81, 85, 88, 92, 95, 99, 103, 106	Handbook: 480, 484, 545-550

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
7.2.spi.2. apply function rules;	Teacher's Edition: 29, 33, 49, 53, 65, 95, 102, 103	Handbook: 232, 234, 236, 243, 244, 247, 252
7.2.spi.3. extend rate charts to solve real-world problems.	Teacher's Edition: 62	Handbook: 234, 243, 244
<i>At level 2, the student is able to</i> 7.2.spi.4. generalize patterns in data represented in tables and graphs;	Teacher's Edition: 29, 33, 45, 47, 52, 53, 62, 63, 65, 70, 85, 88, 92, 96, 103	Handbook: 234, 244, 308, 311-313
7.2.spi.5. represent mathematical statements and real-world situations using symbols;	Teacher's Edition: 26, 29, 33, 49, 60, 74, 79, 81, 83, 96, 103, 106, 110, 114, 120, 123	Handbook: 202-206, 232, 234, 241, 243, 244, 247, 255, 258, 260, 261, 482
7.2.spi.6. evaluate algebraic expressions for a given value of up to two variables;	Teacher's Edition: 26, 29, 33, 49, 60, 67, 74, 79, 81, 83, 95, 96, 102	Handbook: 206, 209, 243-244
7.2.spi.7. solve one-step linear equations.	Teacher's Edition: 26, 49, 58, 61, 63, 67, 91, 110, 114, 120, 121	Handbook: 241-242
<i>At level 3, the student is able to</i> 7.2.spi.8. solve real-world problems involving one-step linear equations;	Teacher's Edition: 26, 49, 110, 114	Handbook: 241, 482

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
7.2.spi.9. identify whole numbers that satisfy a given one-variable linear inequality;		Handbook: 257-258, 260
7.2.spi.10. select the scatterplot that represents the data in tabular form;	Teacher's Edition: 52, 92, 96, 99, 103, 106	Handbook: 305, 308, 311, 313
7.2.spi.11. interpret graphs which represent rates of change.	Teacher's Edition: 52, 99, 103, 106	Handbook: 234, 247-250, 255, 311-313

G E O M E T R Y

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<i>At Level 1, the student is able to</i> 7.3.spi.1. identify the results of transformations of two-dimensional figures (i.e., turns/rotations, flips/reflections, slides/translations).	Teacher's Edition: 72, 74, 76, 78, 79, 81, 83, 85, 86	Handbook: 384-386, 388, 390
<i>At level 2, the student is able to</i> 7.3.spi.2. classify triangles by angle, size, and length of sides;	Teacher's Edition: 18, 22, 38, 40, 78, 79, 83, 85, 86, 87, 88	Handbook: 351-353

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
7.3.spi.3. determine congruence of line segments, angles, and polygons;	Teacher’s Edition: 26, 45, 49, 67, 70, 89, 96, 98, 103, 123	Handbook: 333, 381-383
7.3.spi.4. classify polygons by properties;	Teacher’s Edition: 14, 18, 22, 26, 27, 29, 31, 33, 35, 38, 40, 41, 42, 44, 45, 47, 49, 50, 51, 52, 56, 60, 61, 62, 63, 67, 68, 70, 73, 79, 83, 85, 86, 92, 94, 96	Handbook: 339, 342, 344-345, 348-353, 362-364
7.3.spi.5. use ordered pairs to describe given points in a coordinate system.	Teacher’s Edition: 45, 49, 52, 54, 55, 56, 57, 58, 59, 60, 61, 63, 64,65, 66, 67, 68, 70, 71, 74, 78, 79, 81, 83, 85, 86, 89	Handbook: 232, 235, 236, 248, 249, 250, 255, 318-320
<i>At level 3, the student is able to</i> 7.3.spi.6. determine the measure of an angle of a triangle given the measures of the other two angles;	Teacher’s Edition: 18, 38, 44, 88	Handbook: 342, 351
7.3.spi.7. spatial reasoning and visualization to solve real-world problems.	Teacher’s Edition: 14, 103, 106, 110, 123	Handbook: 317-320, 322-324, 327, 338, 340, 346, 350, 354, 359-361, 364-366, 370, 372, 376-377, 379-380, 387-389, 396, 401, 412-413, 417-418, 421-422

M E A S U R E M E N T

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>7.4.spi.1. apply formulas to determine the areas of rectangles and triangles;</p>	<p>Teacher’s Edition: 55, 63, 72, 74, 76, 78, 79, 81, 83, 86, 89, 92</p>	<p>Handbook: 356, 366, 561, 562</p>
<p>7.4.spi.2. determine the distance between two points on the x- or the y-axis in Quadrant I.</p>	<p>Teacher’s Edition: 65</p>	<p>Handbook: 319, 320</p>
<p><i>At level 2, the student is able to</i></p> <p>7.4.spi.3. convert from one unit to another within the same system;</p>	<p>Teacher’s Edition: 33, 35, 41, 42, 52, 81</p>	<p>Handbook: 437, 535-537, 567</p>
<p>7.4.spi.4. select units of appropriate size and type to measure angles, perimeter, area, surface area, and volume;</p>	<p>Teacher’s Edition: 14, 18, 26, 27, 29, 31, 33, 38, 42, 45, 47, 49, 52, 63, 65, 67, 70, 71, 74, 76, 78, 79, 81, 83, 85, 86, 88, 90, 92, 96, 97, 99, 101, 104, 106, 110, 112, 114, 115, 117, 118, 120, 121, 123, 124</p>	<p>Handbook: 330-331, 346-347, 354, 356-357, 365-368, 375, 396-398, 401-402, 407-408, 412-413, 417-418, 421-422, 512, 537, 560-566</p>
<p>7.4.spi.5. apply formulas to determine the area of parallelograms, trapezoids, and circles.</p>	<p>Teacher’s Edition: 55, 60, 63, 67, 70, 71, 81, 89, 92, 114, 115</p>	<p>Handbook: 367-368, 375, 562</p>

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<p><i>At level 3, the student is able to</i></p> <p>7.4.spi.6. estimate length, perimeter, circumference, area, and volume using a variety of strategies;</p>	<p>Teacher’s Edition: 90, 91, 99, 109, 110, 112, 115, 118, 120, 121, 123, 124</p>	<p>Handbook: 035, 372, 375</p>
<p>7.4.spi.7. find or estimate the area of irregular and complex shapes;</p>	<p>Teacher’s Edition: 70, 78, 79, 81</p>	<p>Handbook: 347</p>
<p>7.4.spi.8. solve problems involving scale factors using ratios and proportions.</p>	<p>Teacher’s Edition: 9, 14, 29, 38, 42, 52</p>	<p>Handbook: 377-378, 429, 440</p>

DATA ANALYSIS

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>7.5.spi.1. interpret bar and line graphs to answer questions and solve real-world problems.</p>	<p>Teacher’s Edition: 9, 29, 33, 42, 70, 74, 78, 85, 88, 113</p>	<p>Handbook: 292-293, 298-299, 310, 425, 446, 485</p>
<p><i>At level 2, the student is able to</i></p> <p>7.5.spi.2. interpret circle graphs displaying real-world data;</p>	<p>Teacher’s Edition: 9, 29, 67, 70</p>	<p>Handbook: 296, 445</p>

Seventh Grade Benchmarks	Summer Success: Math, Grade 7	Math on Call
7.5.spi.3. determine the mean for a data set;	Teacher's Edition: 18, 67	Handbook: 273, 274, 569
7.5.spi.4. determine the median for a data set;	Teacher's Edition: 18, 63, 67	Handbook: 273, 275, 569
7.5.spi.5. make predictions based on data;	Teacher's Edition: 18, 38, 42, 52, 56, 63, 67, 70, 74, 81, 85, 88, 96, 99, 103, 106, 113	Handbook: 275, 281-283, 284, 290, 292-293, 295, 298-299, 303, 305-306, 307-313, 461-462, 465-472
7.5.spi.6. use a tree diagram or organized list to determine all possible outcomes of a simple compound event.	Teacher's Edition: 111, 119, 120, 123	Handbook: 458. 460, 463-464
<i>At level 3, the student is able to</i> 7.5.spi.7. connect data sets and their graphical representation (i.e., bar graphs, stem-and-leaf plots, box plots, and scatterplots);	Teacher's Edition: 9, 33, 37, 42, 52, 67, 88, 90, 92, 96, 99, 103, 106	Handbook: 292-293, 302-305
7.5.spi.8. use proportional thinking to make conjectures about results of experiments and simulations;	Teacher's Edition: 110, 111, 113, 114, 119, 120, 123	Handbook: 425, 466-467
7.5.spi.9. connect the symbolic representation of a probability to an experiment.	Teacher's Edition: 108, 109, 110, 114, 117, 120, 123	Handbook: 466-467, 568



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correlated to
Tennessee Mathematics State Performance Indicators
Eighth Grade

NUMBERS AND OPERATIONS

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>8.1.spi.1. identify the opposite and the reciprocal of a rational number;</p>	<p>Teacher's Edition: 56, 58, 61, 63, 65, 67, 68, 70, 71</p>	<p>Handbook: 046-047, 188-192, 224</p>
<p>8.1.spi.2. compare rational numbers using the appropriate symbol (<, >, =).</p>	<p>Teacher's Edition: 39, 42, 63, 65</p>	<p>Handbook: 007-008, 018-019, 039-040, 048</p>
<p><i>At level 2, the student is able to</i></p> <p>8.1.spi.3. use ratios and proportions to represent real-world situations (i.e., scale drawings, probability);</p>	<p>Teacher's Edition: 26, 27, 59, 110, 111, 113, 114, 120, 121, 123</p>	<p>Handbook: 377, 379, 423-426, 428-432, 434-440, 443-445, 462, 465-469, 472</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
8.1.spi.4. determine the approximate locations of rational numbers on a number line;	Teacher's Edition: 29, 38, 56, 67, 70	Handbook: 007, 010, 035, 036, 040, 042, 046, 048, 049, 050, 108, 118, 119, 136, 230
8.1.spi.5. determine the square roots of perfect squares (< 169);	Teacher's Edition: 73, 74, 76, 77, 78, 79, 81, 83, 105	Handbook: 076-077, 079, 540
8.1.spi.6. work flexibly with fractions, decimals, and percents to solve one- and two-step word problems;	Teacher's Edition: 14, 17, 18, 22, 27, 29, 31, 33, 34, 45, 49, 50, 53, 59, 66, 68, 70, 71, 83, 84, 95, 101, 106, 116, 123	Handbook: 089, 106-107, 115, 120, 134-135, 159, 161-163, 171, 185-187, 189-192, 442-453, 478-479
8.1.spi.7. compute efficiently and accurately with whole numbers, fractions, decimals, and percents;	Teacher's Edition: 8, 9, 14, 18, 22, 25, 26, 29, 30, 31, 32, 33, 35, 38, 40, 42, 43, 44, 45, 47, 48, 49, 50, 52, 53, 66, 87, 95, 98, 99, 102, 103, 104, 105, 106, 112, 113, 115, 116, 119, 122, 123	Handbook: 087-107, 109-135, 137-163, 165-1192, 194-199, 441-455
8.1.spi.8. use estimation strategies to select a reasonable solution to a real-world problem involving computing with rational numbers;	Teacher's Edition: 30, 39, 46, 123	Handbook: 092-095, 102, 114, 120-124, 149-151, 176-178
8.1.spi.9. calculate rates involving cost per unit to determine the best buy.	Teacher's Edition: 114	Handbook: 438, 439

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 3, the student is able to</i></p> <p>8.1.spi.10. use exponential, scientific, and calculator notation to represent large numbers in real-world situations;</p>	<p>Teacher's Edition: 36, 41, 52, 90, 92, 94, 96, 97, 106, 107</p>	<p>Handbook: 006, 014-016</p>
<p>8.1.spi.11. apply order of operations in computing with rational numbers using no more than two parentheses and exponents 1 and 2.</p>	<p>Teacher's Edition: 26, 29, 33, 38, 45, 49, 74, 85, 89, 96</p>	<p>Handbook: 207-210</p>

A L G E B R A

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>8.2.spi.1. generalize a variety of patterns with symbolic rules;</p>	<p>Teacher's Edition: 8, 18, 26, 29, 33, 38, 45, 49, 52, 74, 110, 114, 120, 123</p>	<p>Handbook: 232, 234, 236, 243, 244, 247, 252, 545, 548, 549</p>
<p>8.2.spi.2. evaluate a first-degree algebraic expression given values for two or more variables.</p>	<p>Teacher's Edition: 33, 53, 92, 96, 110, 112, 114, 115, 117, 118, 120, 121, 123</p>	<p>Handbook: 206, 209, 243-244</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 2, the student is able to</i></p> <p>8.2.spi.3. represent situations and solve real-world problems using symbolic algebra;</p>	<p>Teacher’s Edition: 14, 18, 26, 29, 31, 33, 34, 38, 42, 45, 49, 50, 52, 53, 54, 56, 68, 70, 73, 74, 78, 81, 85, 88, 92, 94, 96, 97, 98, 99, 101, 103, 104, 106, 107, 108, 110, 114, 115, 116, 117, 120</p>	<p>Handbook: 202-206, 232, 234, 241, 243, 244, 247, 255, 258, 260, 261, 482</p>
<p>8.2.spi.4. connect symbolic expressions and graphs of lines;</p>	<p>Teacher’s Edition: 110, 112, 114, 115, 117, 118</p>	<p>Handbook: 232, 234-235, 246-247, 249-250, 571</p>
<p>8.2.spi.5. generate equivalent forms for simple algebraic expressions;</p>	<p>Teacher’s Edition: 33, 52, 53, 70</p>	<p>Handbook: 208, 239-240</p>
<p>8.2.spi.6. solve one- and two-step linear equations involving integers;</p>	<p>Teacher’s Edition: 14, 18, 26, 29, 31, 33, 34, 58, 61, 63, 65, 68, 70, 71, 74, 78, 81, 90, 92, 94, 96, 97, 98, 99, 101, 103, 104, 106, 107, 110, 116, 117, 120</p>	<p>Handbook: 241-242</p>
<p>8.2.spi.7. apply given formulas to solve real-world problems;</p>	<p>Teacher’s Edition: 45, 85, 86, 119</p>	<p>Handbook: 252, 359, 365-366, 372, 396, 401, 412-413, 417-418, 421-422, 442-455, 458, 465-466, 468-469, 472, 482-483, 560-571</p>
<p>8.2.spi.8. interpret graphs which represent rates of change.</p>	<p>Teacher’s Edition: 114, 117</p>	<p>Handbook: 234, 247-250, 255, 311-313</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 3, the student is able to</i></p> <p>8.2.spi.9. formulate multi-step equations that represent relationships and real-world situations;</p>	<p>Teacher's Edition: 26, 29, 31, 92, 94, 96, 97, 99, 101, 108, 110</p>	<p>Handbook: 241</p>
<p>8.2.spi.10. solve one-step linear inequalities;</p>		<p>Handbook: 257-258, 260</p>
<p>8.2.spi.11. connect the appropriate graph to a linear equation.</p>	<p>Teacher's Edition: 109, 110, 112, 114, 115, 117, 118</p>	<p>Handbook: 232, 234-235, 246-247, 249-250, 571</p>

G E O M E T R Y

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>8.3.spi.1. classify types of two- and three-dimensional geometric figures using their defining properties;</p>	<p>Teacher's Edition: 8, 14, 18, 28, 38, 41, 47, 53, 56, 58, 60, 61, 63, 65, 67, 70, 102, 110, 112, 114, 115, 117, 118</p>	<p>Handbook: 344-345, 348-349, 351-353, 358, 362-364, 370, 393-395, 399-400, 403-406, 409-411, 414-416, 419-420</p>
<p>8.3.spi.2. use ordered pairs to describe given points in a coordinate system.</p>	<p>Teacher's Edition: 18, 54, 56, 60, 61, 63, 65, 67, 70, 74, 115, 118, 121, 124</p>	<p>Handbook: 232, 235, 236, 248, 249, 250, 255, 318-320</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 2, the student is able to</i></p> <p>8.3.spi.3. identify relationships among angles (i.e., complementary, supplementary, interior, exterior, vertical, corresponding);</p>	<p>Teacher’s Edition: 29, 35, 37, 42, 43, 44, 90, 92, 94, 95, 96, 97, 99, 101</p>	<p>Handbook: 332-335, 337-338, 341-343</p>
<p>8.3.spi.4. recognize similar geometric figures;</p>	<p>Teacher’s Edition: 14, 33, 49, 52, 73, 74</p>	<p>Handbook: 376</p>
<p>8.3.spi.5. determine the measure of an angle of a triangle given the measures of the other two angles;</p>	<p>Teacher’s Edition: 9, 18, 26, 27, 31, 38, 45, 53, 119</p>	<p>Handbook: 342, 351</p>
<p>8.3.spi.6. apply relationships among angles and side lengths of similar geometric figures;</p>	<p>Teacher’s Edition: 14, 33, 49, 52, 53, 74, 99</p>	<p>Handbook: 376-380</p>
<p>8.3.spi.7. apply spatial reasoning and visualization to solve real-world problems.</p>	<p>Teacher’s Edition: 49, 85, 86, 99, 101, 119, 120</p>	<p>Handbook: 317-320, 322-324, 327, 338, 340, 346, 350, 354, 359-361, 364-366, 370, 372, 376-377, 379-380, 387-389, 396, 401, 412-413, 417-418, 421-422</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 3, the student is able to</i></p> <p>8.3.spi.8. apply geometric ideas and relationships in areas outside the mathematics classroom (i.e., art, science, everyday life);</p>	<p>Teacher’s Edition: 85, 86, 119, 120</p>	<p>Handbook: 315-320, 322-324, 327, 338-339, 344, 346, 350, 354, 359-361, 364-366, 370, 372-374, 376-380, 387-389, 391-394, 401, 403, 409, 411-414, 417-418, 421-422, 483, 491</p>
<p>8.3.spi.9. solve problems using angle relationships (i.e., complementary, supplementary, interior, exterior, vertical, corresponding).</p>	<p>Teacher’s Edition: 29, 35, 37, 42, 43, 44, 92, 94, 95, 96, 97, 99, 101</p>	<p>Handbook: 332-343</p>

M E A S U R E M E N T

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At Level 1, the student is able to</i></p> <p>8.4.spi.1. select units of appropriate size and type to measure angles, perimeter, area, surface area, and volume;</p>	<p>Teacher’s Edition: 14, 18, 29, 31, 33, 38, 40, 42, 43, 45, 47, 49, 50, 56, 60, 63, 67, 68, 74, 76, 85, 88, 92, 94, 96, 99, 103, 106, 110, 112, 115, 117, 118, 120, 121, 123, 124</p>	<p>Handbook: 330-331, 346-347, 354, 356-357, 365-368, 375, 396-398, 401-402, 407-408, 412-413, 417-418, 421-422, 512, 537, 560-566</p>
<p>8.4.spi.2. convert from one unit to another within the same system.</p>	<p>Teacher’s Edition: 14, 38, 49, 96, 99, 101</p>	<p>Handbook: 437, 535-537, 567</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<p><i>At level 2, the student is able to</i></p> <p>8.4.spi.3. estimate length, perimeter, circumference, area, and volume using a variety of strategies;</p>	<p>Teacher's Edition: 33, 47</p>	<p>Handbook: 035, 372, 375</p>
<p>8.4.spi.4. apply formulas to find the area of triangles, parallelograms, and trapezoids;</p>	<p>Teacher's Edition: 26, 36, 37, 38, 40, 45, 48, 50, 55, 56, 60, 63, 66, 67, 68, 69, 74, 76, 81, 84, 103, 120</p>	<p>Handbook: 356, 367-368, 561, 562</p>
<p>8.4.spi.5. solve real-world problems involving rate/time/distance (i.e., $d = rt$);</p>		<p>Handbook: 202</p>
<p>8.4.spi.6. apply formulas to find the circumference and area of circles;</p>	<p>Teacher's Edition: 106, 117</p>	<p>Handbook: 372, 375, 561, 562</p>
<p>8.4.spi.7. estimate or find the area of irregular and complex shapes.</p>	<p>Teacher's Edition: 74</p>	<p>Handbook: 347</p>
<p><i>At level 3, the student is able to</i></p> <p>8.4.spi.8. solve problems involving scale factors using ratios and proportions;</p>	<p>Teacher's Edition: 33, 52, 53, 76, 79, 81</p>	<p>Handbook: 377-378, 429, 440</p>

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
8.4.spi.9. solve real-world problems using the Pythagorean Theorem (no radicals).	Teacher's Edition: 72, 85, 86	Handbook: 359

DATA ANALYSIS

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
<i>At Level 1, the student is able to</i> 8.5.spi.1. identify an appropriate sample to test a given hypothesis.	Teacher's Edition: 123	Handbook: 263-267
<i>At level 2, the student is able to</i> 8.5.spi.2. interpret appropriate graphical representations of data (i.e., histograms, box plots, scatterplots);	Teacher's Edition: 9, 63, 67, 70, 81, 85, 88, 92, 96, 99, 103	Handbook: 295, 302, 305-306, 308-313
8.5.spi.3. determine the mean of a given set of real-world data;	Teacher's Edition: 45, 74, 78, 87	Handbook: 273, 274, 569
8.5.spi.4. connect data sets and their graphical representations (i.e., histograms, stem-and-leaf plots, box plots, scatterplots);	Teacher's Edition: 63, 67, 70, 81, 85, 88, 92, 96, 99, 103	Handbook: 292-293, 302-305

Eighth Grade Benchmarks	Summer Success: Math, Grade 8	Math on Call
8.5.spi.5. make conjectures and predictions based on data;	Teacher's Edition: 29, 56, 63, 70, 85, 88, 92, 96, 99, 103, 106	Handbook: 275, 281-283, 284, 290, 292-293, 295, 298-299, 303, 305-306, 307-313, 461-462, 465-472
8.5.spi.6. connect the symbolic representation of a probability to an experiment.	Teacher's Edition: 110, 111, 113, 119, 120, 121, 123	Handbook: 466-467, 568
<i>At level 3, the student is able to</i> 8.5.spi.7. determine the median of a given set of real-world data (even number of data);	Teacher's Edition: 45, 74, 78, 81	Handbook: 273, 275, 569
8.5.spi.8. recognize misleading presentations of data.		Handbook: 290, 467



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