

A Correlation of

**SCOTT FORESMAN • ADDISON WESLEY**

**Mathematics**

to the

**Pennsylvania  
Math Assessment Anchors 2007  
Grades 3-6**



O/M-168

## Introduction

This document demonstrates the high degree of success students will achieve when using **Scott Foresman – Addison Wesley Mathematics** in meeting the objectives of the Pennsylvania Math Assessment Anchors 2007. Correlation page references are to the Teacher Edition, which contains facsimile Pupil Edition pages.

**Scott Foresman – Addison Wesley Mathematics** was carefully developed to reflect the specific needs of students and teachers at every grade level, while maintaining an overall primary goal: to have math make sense from every perspective. This program is based on scientific research that describes how children learn mathematics well and on classroom-based evidence that validates proven reliability.

### ● Reaching All Learners

**Scott Foresman – Addison Wesley Mathematics** addresses the needs of every student through structured instruction that makes concepts easier for students to grasp. Lessons provide step-by-step examples that show students how to think about and solve the problem. Built-in leveled practice in every lesson allows the teacher to customize instruction to match students' abilities. Reaching All Learners, featured in the Teacher Edition, helps teachers meet the diverse needs of the classroom with fun and stimulating activities that are easy to incorporate directly into the lesson plan.

### ● Test Prep

**Scott Foresman - Addison Wesley Mathematics** builds understanding through connections to prior knowledge, math strands, other subjects and the real world. It provides practice for maximum results and offers assessment in a variety of ways. Besides carefully placed reviews at the end of each Section, an important Test Prep strand runs throughout the program. Writing exercises prepare students for open-ended and short-or extended-response questions on state and national tests. Spiral review in a test format help students keep their test-taking skills sharp.

### ● Priority on problem solving:

Problem-solving instruction is systematic and explicit. Reading connections help children with problem-solving skills and strategies for math. Reading for Math Success encourages students to use the reading skills and strategies they already know to solve math problems.

### ● Instructional Support

In the Teacher Edition, the Lesson Planner provides an easy, at-a-glance planning tool. It identifies objectives, math understandings, focus questions, vocabulary, and resources for each lesson in the chapter. Professional Development at the beginning of each chapter in the Teacher Edition includes a Skills Trace as well as Math Background and Teaching Tips for each section in the chapter.

Ancillaries help to reach all learners with practice, problem solving, hands-on math, language support, assessment and teacher support. Technology resources for both the student and the teacher provide a whole new dimension to math instruction by helping to create motivating and engaging lessons.

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**Scott Foresman – Addison Wesley Mathematics  
to the  
Pennsylvania Math Assessment Anchors 2007  
Grade Three**

**M3.A Numbers and Operations**

**ASSESSMENT ANCHOR**

**M3.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.A.1.1 Apply place-value concepts and numeration to counting, ordering, grouping and equivalency. Reference: 2.1.3.C, 2.1.3.I, 2.11.3.A</b>	<b>M3.A.1.1.1 Match the word name with the appropriate whole number (up through 9,999).</b>	<b>SE/TE: 2, 4B, 4-5, 6A-B, 6-7, 8A-B, 8-9, 10B, 10-11, 12B, 12-13, 16, 17, 18A, 20, 44, 50, 53, 56-57, 60-61, 105</b>
	<b>M3.A.1.1.2 Differentiate between and/or give examples of even and odd number (limit to 3 digits).</b>	<b>SE/TE: 24-26, 51, 258, 276B, 276-277, 669</b>
	<b>M3.A.1.1.3 Compare two whole numbers using greater than (&gt;), less than (&lt;) or equal to (=) (up through 9,999).</b>	<b>SE/TE: 12B, 18A-B, 18-21, 22-23, 34, 35, 44B, 45, 53, 57-58, 61, 97, 125, 168A-B, 168-169, 172, 173, 175, 177, 178-179, 181, 185, 189, 195, 287, 291, 305, 359, 397, 416, 445, 651</b>
	<b>M3.A.1.1.4 Order a set of whole numbers from least to greatest or greatest to least (up through 9,999; limit sets to no more than four numbers).</b>	<b>SE/TE: 22A-B, 22-23, 27, 31, 34, 35, 48, 53, 54, 58, 62, 71, 90A, 191, 282A, 328A, 471, 720</b>
	<b>M3.A.1.1.5 Match a symbolic representation of numbers to appropriate whole numbers (e.g., base ten blocks, 7 hundreds, 4 tens and 8 ones, etc).</b>	<b>SE/TE: 6A-B, 6-7, 8A-B, 8-9, 10A-B, 10-11, 12A-B, 12-13, 16, 17, 18-21, 22B, 24B, 25, 41, 44B, 44, 50, 52-53, 54, 56-57, 60, 101, 103, 104A, 128A-B, 128-131, 132A, 132-133, 135, 143, 144, 145, 146A-B, 146-147, 148, 150B, 150, 152, 156, 167, 169, 178-179, 180, 186, 282B, 358, 373, 629</b>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.A.1.2 Use fractions to represent quantities as part of a whole or part of a set.</b>	<b>M3.A.1.2.1 Write the fraction that corresponds to a drawing or part of a set (numerators 1-9, denominators 2-10. No equivalent or improper fractions or mixed numbers).</b>	<b>SE/TE:</b> 502A–B, 502–503
	<b>M3.A.1.2.2 Create a drawing or set that represents a given fraction (numerators 1-9, denominators 2-10. No equivalent or improper fractions or mixed numbers).</b>	<b>SE/TE:</b> 502A–B, 502–503
<b>M3.A.1.3 Count, compare and make change using a collection of coins and one-dollar bills.</b> <i>Reference: 2.1.3.E</i>	<b>M3.A.1.3.1 Count a collection of bills and coins less than \$5.00 (penny, nickel, dime, quarter, dollar). Money may be represented as 15 cents, 15¢ or \$0.15.</b>	<b>SE/TE:</b> 36A-B, 36-39, 40A-B, 40-41, 42A, 46, 47, 49, 51, 53, 55, 59, 63, 66A, 86A, 96A, 143, 146B, 162A-B, 162-165
	<b>M3.A.1.3.2 Compare total values of combinations of coins less than \$5.00 (penny, nickel, dime, quarter, dollar).</b>	<b>SE/TE:</b> 36B, 38, 42A, 46, 47, 53, 123, 162A, 165, 166A
	<b>M3.A.1.3.3 Make change for an amount up to \$5.00 with no more than \$2.00 change given (penny, nickel, dime, quarter, dollar).</b>	<b>SE/TE:</b> 40A-B, 40-41, 42A, 46, 47, 51, 53, 55, 59, 63, 66A, 69, 89, 111, 112, 117, 121, 157, 162A, 163-165, 180, 304, 312, 391, 404A, 486

**ASSESSMENT ANCHOR**

**M3.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.A.2.1 Understand various meanings of operations and the relationship between them. Reference: 2.1.3.K, 2.2.3.C, 2.5.3.C</b></p>	<p><b>M3.A.2.1.1 Represent multiplication as repeated addition.</b></p>	<p><b>SE/TE:</b> 260A-260B, 260–261, 262A–262B, 262–263</p>
	<p><b>M3.A.2.1.2 Demonstrate the inverse relationship between addition and subtraction using fact families and/or factors.</b></p>	<p><b>SE/TE:</b> 70A–70B, 70–71</p>
	<p><b>M3.A.2.1.3 Identify the correct operation(s) to solve a word problem (no more than 2 operations using +, - and/or X).</b></p>	<p><b>SE/TE:</b> 14A-B, 14-15, 16, 17, 51, 61, 63, 64-65, 68-69, 70B, 71, 76B, 76-77, 78, 79, 81, 82A, 104B, 108-109, 111, 112-113, 114-115, 117, 119, 121, 124, 126A, 126-127, 128, 130, 132, 134, 136-137, 143, 145, 147, 148B, 148-149, 151, 152A-B, 152, 154-155, 157, 159, 162A-B, 162-165, 166A, 167, 170-171, 173, 178-179, 180-181, 186-188, 260B, 260, 264, 265, 266A-B, 266-267, 273, 274, 276, 278-279, 280B, 280-281, 283, 284B, 284-285, 286A, 287, 290-291, 293, 294A-B, 294-295, 296, 297, 300-301, 302-303, 304-305, 306, 308, 310-314, 315, 317, 319, 320-323, 324B, 324, 326, 329, 334-335, 338B, 338-339, 341, 343, 346A-B, 346-347, 348A-</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
	(continued)	B, 348-349, 350, 351, 352-353, 355, 356-357, 358-359, 362-363, 364-367, 368J, 368-369, 370A, 370-371, 372A, 372-373, 374A-B, 374-377, 380A, 384-385, 388-389, 390-391, 392A-B, 392-393, 395, 396A, 397, 398, 400-401, 402B, 403, 404A-B, 405, 406B, 409, 411, 412-413, 414-415, 416, 418-421, 422-424, 431, 439, 473, 496, 517, 518, 520B, 535, 544, 563, 589, 572-575, 599, 607, 610-611, 629, 631, 635, 640-641, 649, 656A-B, 656-657, 665, 666, 668, 673, 674-677, 721

**ASSESSMENT ANCHOR**

**M3.A.3 Compute accurately and fluently and make reasonable estimates.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.A.3.1 Solve problems using addition, subtraction and multiplication (straight computation and word problems).</b>  <i>Reference: 2.1.3.L, 2.2.3.B</i></p>	<p><b>M3.A.3.1.1 Solve single- and double- digit addition and subtraction problems with and without regrouping in vertical or horizontal form.</b></p>	<p><b>SE/TE:</b> 64-65, 66A-B, 66-69, 70A-B, 70-71, 72A-B, 72-73, 74-75, 76A-B, 76-77, 78, 79, 80A-B, 80-81, 82A-B, 82-85, 92, 93, 94A-B, 94-95, 96A-B, 96-97, 101, 103, 104A-B, 106, 107, 108-109, 110-111, 112-113, 114, 116-119, 120-123, 124I-J, 124-125, 126A-B, 126-127, 128A-B, 128-131, 132A-B, 132-135, 136A-B, 136-137, 143, 144, 145, 147, 148A-B, 148-149, 150A-B, 150-151, 152A-B, 152-155, 156A-B, 156-157, 158, 159, 165, 166A-B, 166-167, 169, 170A-B, 172-173, 176-177, 178-179, 182-185, 186-189, 195, 248, 273, 283, 304, 329, 335, 339, 345, 358, 368, 401, 403, 427, 449, 453, 486, 537, 539, 631, 637</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M3.A.3.1.2 Solve problems involving multiplication through the 9’s tables through 9x5.</b>	<b>SE/TE:</b> 258I-J, 260A-B, 260-261, 262A-B, 262-265, 267, 274, 275, 276A-B, 276-279, 280A-B, 280-281, 282A-B, 282-283, 286A-B, 286-287, 288A-B, 288-291, 292A-B, 292-293, 296, 297, 300-301, 302-303, 304, 306-309, 310-313, 314I-J, 314-315, 316A-B, 316-317, 318A-B, 318-319, 320A-B, 320-323, 324A-B, 324-327, 328A-B, 328-329, 335, 336, 337, 340-341, 342A-B, 342-343, 345, 348A-B, 350, 351, 352-353, 354-355, 356-357, 358, 360-363, 364-367, 369, 370A-B, 370-371, 372A-B, 372-373, 384A-B, 384-385, 386A-B, 386-387, 388A-B, 388-389, 390A-B, 390-391, 392A-B, 392-393, 394, 395, 396A-B, 396-397, 402A-B, 402-403, 408, 409, 412-413, 414-415, 418-421, 422-425, 443, 449, 473, 610-611, 670
	<b>M3.A.3.1.3 Solve triple digit addition and subtraction problems without regrouping in vertical or horizontal form.</b>	<b>SE/TE:</b> 128A–B, 128-131, 132A–B, 132-135, 136A–136B, 136-137
<b>M3.A.3.2 Use estimation skills to arrive at conclusions.</b> <b>Reference: 2.2.3.E</b>	<b>M3.A.3.2.1 Estimate sums and differences of quantities; round 2-digit numbers to the nearest 10, and 3 digit numbers to the nearest 100, before computing (limit to two numbers).</b>	<b>SE/TE:</b> 64I-J, 86A-B, 86-89, 90A-B, 90-91, 92, 93, 95, 98A-B, 98-101, 102, 104B, 105, 106, 107, 109, 111, 112-113, 114, 118, 122-123, 125, 127, 131, 152A, 160A-B, 160-161, 165, 182-185, 189



## M3.B Measurement

### ASSESSMENT ANCHOR

**M3.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.B.1.1 Determine or calculate time and elapsed time.</b> <b>Reference: 2.3.3.C, 2.3.3.D</b>	<b>M3.B.1.1.1 Tell /show time (analog) to the minute.</b>	<b>SE/TE:</b> 180, 190, 192A-B, 192-195, 196A-B, 196-197, 198A, 202, 203, 242-243, 246-247, 250, 254, 416, 600
	<b>M3.B.1.1.2 Find elapsed time to increments of 5 minutes (limited to 2 adjacent hours).</b>	<b>SE/TE:</b> 180, 190I, 198A-B, 198-199, 201, 202, 203, 238A-B, 242-243, 244, 246-247, 250, 254, 267, 455, 486, 552, 668, 687, 699
	<b>M3.B.1.1.3 Identify times of the day and night as AM and PM.</b>	<b>SE/TE:</b> 192B, 193-195, 197, 198B, 198-199, 201, 202, 203, 238A-B, 244, 247, 250, 254, 455, 486, 552, 668, 687, 699, 700B
<b>M3.B.1.2 Use the attributes of length, area, volume and weight of objects.</b> <b>Reference: 2.3.3.A, 2.3.3.E</b>	<b>M3.B.1.2.1 Select an appropriate unit for the attribute being measured.</b>	<b>SE/TE:</b> 54, 114, 180, 248, 304, 358, 416, 426J, 464A-B, 464-467, 468A-B, 468-471, 472A-B, 472-473, 476B, 476-477, 478, 479, 480-481, 483, 485, 491, 495, 496J, 497, 524-525, 532A-B, 532-533, 534A-B, 534-535, 536A-B, 536-537, 538A-B, 538-539, 540, 543, 544, 545, 546-547, 549, 550-551, 552, 556-557, 560-561, 563, 582A-B, 582-583, 584A-B, 584-587, 588, 590-591, 592, 593, 594-595, 597, 604-605, 607-609, 636, 668, 680A-B, 680-683, 684A-B, 684-685, 690A-B, 690-693, 694A-B, 694-695, 696A-B, 696-697, 698, 699, 710A-B, 710-711, 716-717, 718-719, 720, 722-724, 726-728
	<b>M3.B.1.2.2 Compare and/or order objects according to length, area, or weight.</b>	<b>SE/TE:</b> 238B, 305, 358, 470-471, 496J, 536B, 539, 542B, 542-543, 561, 562J, 582B, 585, 678I, 682, 693, 694A-B, 694-695, 698, 718, 722, 726

**ASSESSMENT ANCHOR**

**M3.B.2 Apply appropriate techniques, tools and formulas to determine measurements.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.B.2.1 Determine the measurement of objects with non-standard and standard units.</b> Reference: 2.3.3.B, 2.3.3.F</p>	<p><b>M3.B.2.1.1 Use a ruler (provided) to measure to the nearest 1/2 inch.</b></p>	<p><b>SE/TE:</b> 496J, 532A-B, 532-533, 534A-B, 534-535, 536A-B, 536-537, 538A-B</p>
<p><b>M3.B.2.2 Estimate measurements of familiar objects.</b> Reference: 2.3.3.G</p>	<p><b>M3.B.2.2.1 Match the object with its approximate measurement (all measurements given must be of the same system, e.g., about how tall is a soda pop can? 5 inches, 5 feet, 5 yards, etc.).</b></p>	<p><b>SE/TE:</b> 238B, 305, 358, 496J, 535, 560, 562J, 582B, 582-583, 585, 592, 593, 599, 600, 609, 668, 678I, 682, 693, 694</p>

**M3.C Geometry**

**ASSESSMENT ANCHOR**

**M3.C.1 Analyze characteristics and properties of two- and three- dimensional geometric shapes and demonstrate understanding of geometric relationships.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.C.1.1 Identify and/or describe two- and three-dimensional objects.</b> Reference: 2.9.3.A</p>	<p><b>M3.C.1.1.1 Name/ identify/describe geometric shapes in two dimensions (circle, square, rectangle, triangle, pentagon, hexagon, octagon).</b></p>	<p><b>SE/TE:</b> 54, 114, 180, 248, 304, 358, 426I-J, 426-427, 431, 432A-B, 432-433, 435, 437, 446A-B, 446-449, 450A-B, 450-453, 454A-B, 454-455, 456A-B, 456-459, 460A-B, 460-461, 462, 463, 464A-B, 464-467, 468A-B, 468-471, 472A-B, 473, 474A-B, 474-475, 476A-B, 476-477, 478, 479, 480-481, 482-483, 484-485, 486, 489-491, 493-495, 501, 552, 587, 600, 639, 668, 720</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M3.C.1.1.2 Name/ identify geometric shapes in three dimensions (sphere, cube, cylinder, cone, pyramid, rectangular prism).</b>	<b>SE/TE:</b> 54, 114, 248, 358, 426I, 426, 428A-B, 428-431, 432A-B, 432-433, 434, 436, 439, 440, 441, 472A-B, 472-473, 474A-B, 474-475, 476A, 478, 479, 482-483, 484-485, 486, 488, 491, 492, 495, 501, 552, 600, 639

**ASSESSMENT ANCHOR**

**M3.C.2 Identify and/or apply concepts of transformations or symmetry.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.C.2.1 Apply the concepts of transformations and symmetry. Reference: 2.9.3.E, 2.9.3.F, 2.9.3.H</b>	<b>M3.C.2.1.1 Identify/draw one line of symmetry in a two-dimensional figure.</b>	<b>SE/TE:</b> 460A-B, 460-461, 467, 477, 483, 484, 490, 494
	<b>M3.C.2.1.2 Identify symmetrical two-dimensional shapes.</b>	<b>SE/TE:</b> 460A-B, 460-461, 467, 477, 483, 484, 490, 494

**M3.D Algebraic Concepts**

**ASSESSMENT ANCHOR**

**M3.D.1 Demonstrate an understanding of patterns, relations and functions.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.D.1.1 Recognize, describe, or extend a variety of patterns. Reference: 2.8.3.A, 2.11.3.D</b>	<b>M3.D.1.1.1 Extend or find a missing element in a pattern of numbers or shapes (pattern must show 3 repetitions – if multiples are used, limit to 2, 3 or 5).</b>	<b>SE/TE:</b> 8A-B, 8-9, 24A-B, 24-27, 51, 52, 55, 58, 115, 135, 147, 174, 180, 191, 249, 259, 277, 280-281, 282, 286, 288, 299, 301, 303, 305, 307-308, 311, 319, 330-331, 332A-B, 332-335, 336, 337, 339, 340A-B, 340-341, 344A-B, 344-345, 350, 351, 352-353, 354-355, 356-357, 359, 361-363, 364-365, 401, 402A-B, 402-403, 417, 443, 464B, 492, 505, 553, 601, 609, 612A-B, 612-615, 618A-B, 618-621, 641, 669, 685, 695

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M3.D.1.1.2 Identify/ describe the rule for a pattern shown (pattern must show 3 repetitions – if multiples are used, limit to 2, 3 or 5).</b>	<b>SE/TE:</b> 8A-B, 8-9, 24A-B, 24-27, 51, 52, 55, 58, 115, 135, 147, 174, 180, 191, 249, 259, 277, 280-281, 282, 286, 288, 299, 301, 303, 305, 307-308, 311, 319, 330-331, 332A-B, 332-335, 336, 337, 339, 340A-B, 340-341, 344A-B, 344-345, 350, 351, 352-353, 354-355, 356-357, 359, 361-363, 364-365, 401, 402A-B, 402-403, 417, 443, 464B, 492, 505, 553, 601, 609, 612A-B, 612-615, 618A-B, 618-621, 641, 669, 685, 695

**ASSESSMENT ANCHOR**

**M3.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M3.D.2.1 Create/ model expressions, equations and inequalities to match a problem situation. Reference: 2.8.3.D</b>	<b>M3.D.2.1.1 Create or match a story to a given combination of symbols (+, -, x, &lt;, &gt;, =) and numbers.</b>	<b>SE/TE:</b> 181, 265, 266A-B, 266-267, 273, 274, 276, 280-281, 283, 284B, 284-285, 286A, 287, 290, 293, 297, 301, 302-303, 305, 306, 310-311, 315, 319, 320-323, 324B, 324, 343, 346A-B, 346-347, 348B, 350, 351, 356-357, 390-391, 392-393, 395, 404A-B, 404-405, 406-407, 409, 410, 413, 414-415, 425, 431, 439, 473, 487, 656, 677

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M3.D.2.1.2 Choose the number sentence that matches a given story (one operation, + or – only).</b>	<b>SE/TE:</b> 181, 258I, 265, 266A-B, 266-267, 273, 274, 276, 280-281, 283, 284B, 284-285, 286A, 287, 290, 293, 297, 301, 302-303, 305, 306, 310-311, 315, 319, 320-323, 324B, 324, 343, 346A-B, 346-347, 348B, 350, 351, 356-357, 390-391, 392-393, 395, 404A-B, 404-405, 406-407, 409, 410, 413, 414-415, 425, 431, 439, 473, 487, 656, 677
<b>M3.D.2.2 Determine the missing number or symbol in a number sentence. Reference: 2.8.3.B, 2.8.3.</b>	<b>M3.D.2.2.1 Find a missing number that makes a number sentence true (1-digit or 2-digit numbers up to 18 using +, - or x through 9 x 5).</b>	<b>SE/TE:</b> 18A, 27, 55, 60, 70-71, 73, 74-75, 76A-B, 76-77, 78, 79, 89, 96-97, 104B, 111, 112-113, 115, 116, 119, 120, 123, 168-169, 172, 173, 175, 249, 265, 287, 293, 305, 308-310, 313, 359, 385, 415, 417, 419, 421, 423, 487, 614, 629, 655, 721
	<b>M3.D.2.2.2 Identify the missing symbol (+, -, =, &lt;, &gt;) that makes a number sentence true.</b>	<b>SE/TE:</b> 19-21, 23, 34, 35, 36A, 57, 61, 125, 169, 172, 173, 181, 210, 287, 297, 397, 633, 651, 669

### M3.E Data Analysis and Probability

#### ASSESSMENT ANCHOR

**M3.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.E.1.1 Answer questions based on data shown on tables, charts, bar graphs.</b>  <b>Reference: 2.6.3.B, 2.7.3.D, 2.11.3.B</b></p>	<p><b>M3.E.1.1.1 Analyze data shown on tables, charts, or bar graphs using the concepts of largest, smallest, most often, least often and middle.</b></p>	<p><b>SE/TE:</b> 20, 84, 95, 115, 160-161, 181, 204-206, 208A-B, 208-211, 212A-B, 212-215, 216-217, 222A-B, 222-223, 224, 225, 226A-B, 226-227, 228A-B, 228-231, 232A-B, 232-233, 234-235, 236A-B, 236-237, 238-239, 240, 241, 243, 245, 246-247, 249, 251-253, 255-257, 261, 268-269, 270A-B, 270-273, 274, 275, 276B, 279, 280A, 285, 305, 312, 347, 359, 376, 400, 417, 487, 553, 570, 591, 601, 617, 654, 669</p>
	<p><b>M3.E.1.1.2 Describe, interpret and/or answer questions based on data shown in tables, charts or bar graphs.</b></p>	<p><b>SE/TE:</b> 20, 23, 28, 76, 81, 84, 95, 115, 130, 134, 142, 160-161, 181, 197, 204A-B, 204-207, 208A-B, 208-211, 212A-B, 212-215, 216-217, 222A-B, 222-223, 224, 225, 226A-B, 226-227, 228A-B, 228-231, 232A-B, 232-233, 234-235, 236A-B, 236-237, 238-239, 240, 241, 243, 245, 246-247, 249, 251-253, 255-257, 261, 268-269, 270A-B, 270-273, 274, 275, 276B, 279, 280A, 285, 305, 308, 311, 312, 347, 359, 376, 397, 400, 417, 487, 553, 570, 574, 591, 601, 616B, 617, 620, 639, 654, 669</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M3.E.1.2 Organize or display data using tables, charts, bar graphs.</b>  <i>Reference: 2.6.3.A, 2.7.3.C</i></p>	<p><b>M3.E.1.2.1 Graph data or complete a graph given the data (grid is provided).</b></p>	<p><b>SE/TE:</b> 181, 208A-B, 208-211, 212A-B, 212-215, 216-217, 218A-B, 218-221, 222A-B, 222-223, 224, 225, 226A-B, 226-227, 228A-B, 228-231, 232A-B, 232-233, 236A-B, 236-237, 253, 256-257, 261, 270A, 276A, 280A, 591</p>
	<p><b>M3.E.1.2.2 Translate information from one type of display to another (e.g., convert tally chart to bar graph). Limit to tally charts, bar graphs and tables.</b></p>	<p><b>SE/TE:</b> 181, 204A-B, 204-207, 208A-B, 208-211, 212A-B, 212-215, 216-217, 218A-B, 218-221, 222A-B, 222-223, 224, 225, 228A-B, 228-231, 232A-B, 232-233, 236A-B, 236-237, 240, 241, 245, 247, 253, 256-257, 270A, 280A, 591</p>

**Scott Foresman – Addison Wesley Mathematics  
to the  
Pennsylvania Math Assessment Anchors 2007  
Grade Four**

**4A. Numbers and Operations**

**ASSESSMENT ANCHOR**

**M4.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.A.1.1 Use models and/or words to represent quantities as decimals, fractions and mixed numbers</b>	<b>M4.A.1.1.1 Write the fraction or decimal, including mixed numbers, that corresponds to a drawing or set – no simplification necessary.</b>	<b>SE/TE:</b> 34A-B, 34–37, 500A–B, 500-501, 502A–502B, 502-503
	<b>M4.A.1.1.2 Create a drawing or set that represents a given fraction or decimal, including mixed numbers (through the tenths).</b>	<b>SE/TE:</b> 34A-B, 34–37, 500A–B, 500-501, 502A–502B, 502-503
	<b>M4.A.1.1.3 Match the standard number form to the word form of decimal numbers (through the tenths place).</b>	<b>SE/TE:</b> 622
	<b>M4.A.1.1.4 Write whole numbers in expanded, standard and/or word form through 6 digits (example of standard to expanded form: 43,076 = 40,000+3000+70+6).</b>	<b>SE/TE:</b> 2, 4A-B, 4-7, 8B, 8-9, 10A-B, 10-11, 14, 15, 16A-B, 18, 22B, 40A-B, 46, 48-49, 52-53, 56, 71, 85, 244, 354, 550, 589



Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M4.A.1.2 Compare quantities and magnitudes of numbers</b>	<b>M4.A.1.2.1 Locate/identify fractions or decimals on a number line (decimals and fractions through the tenths – do not mix fractions and decimals).</b>	<b>SE/TE:</b> 504A-B, 504-507, 508-509, 514, 515, 524A, 525, 530B, 534-535, 538B, 539, 540B, 546, 550, 552, 556, 628, 630-631, 632-633, 683
	<b>M4.A.1.2.2 Compare and/or order whole numbers through 6 digits and amounts of money to \$100 (limit sets for ordering, to no more than 4 numbers)</b>	<b>SE/TE:</b> 3, 16A-B, 16-19, 20A, 21, 26, 27, 48-49, 50, 53, 57, 71, 112, 134, 149, 178, 244, 302, 354, 422, 691, 725
<b>M4.A.1.3 Develop and/or apply number theory concepts to represent numbers in various ways</b>	<b>M4.A.1.3.1 List/identify all factors through 10 of any given number.</b>	<b>SE/TE:</b> 124-125, 134, 136B, 146A, 402A-B, 402-403, 405, 407, 411, 414, 415, 419, 420-421, 427, 430, 467
	<b>M4.A.1.3.2 List/identify multiples of a number, where the multiples do not exceed 100.</b>	<b>SE/TE:</b> 128A-B, 128-131, 136A, 174, 255A-B, 255-256, 314A-B, 314-315, 406A-B, 406-407, 423, 427

**ASSESSMENT ANCHOR**

**4A.2. Understand meanings of operations, use operations and understand how they relate to each other**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M4.A.2.1 Use operations to solve problems (may include word problems)</b></p>	<p><b>M4.A.2.1.1 Solve problems involving all operations with whole numbers, and/or explain the solution (limit to two-step problems; e.g., multiply then add – single digit multipliers and divisors)</b></p>	<p><b>SE/TE:</b> 60I, 61, 62A-B, 62-63, 64A-B, 64-67, 71, 74, 75, 76A-B, 76-79, 80A-B, 80-81, 82A-B, 82-85, 86A-B, 86-87, 92, 93, 94A-B, 94-95, 96A-B, 96-97, 99, 101, 104, 105, 107, 108-109, 110-111, 112, 114-116, 118-120, 122I-J, 124A-B, 124-127, 128A-B, 128-131, 132A-B, 132-135, 136A-B, 136-137, 143, 144, 145, 148A-B, 148-149, 150A-B, 150-151, 152A-B, 152-53, 154A-B, 154-155, 158, 159, 174-175, 176-177, 178, 180-183, 184-187, 254I-J, 254-255, 256A-B, 256-257, 262A-B, 262-263, 264A-B, 264-267, 268, 269, 270A-B, 270-273, 274A-B, 274-275, 281, 282A-B, 282-283, 284, 285, 286A-B, 286-287, 288A-B, 288-289, 294, 295, 300-301, 304-307, 308-311, 312I-J, 313, 314A-B, 314-315, 320A-B, 320-325, 330, 331, 332A-B, 332-335, 336A-B, 336-337, 338A-B, 338-339, 340A-B, 340-341, 346, 347, 352-353, 356-359, 360-363, 364I-J, 366A-B, 366-367, 372A-B, 372-373, 374A-B, 374-377, 378, 379, 380A-B, 380-383, 384A-B, 384-385, 386A-B, 386-389, 390A-B, 390-391, 392A-B, 392-393, 399, 400, 401, 402A-B, 402-403, 404A, 404-405, 406A-B, 406-407, 408A-B, 408-411, 414, 415, 418-419, 420-421, 424-427, 428-431</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M4.A.2.1.2 Solve problems involving addition or subtraction with decimals through the tenths or money to the cent and/or explain the solution Limit to two-step problems.</b>	<b>SE/TE:</b> 77-78, 81, 84-85, 87, 92, 93, 101, 107, 110-111, 115-116, 119, 286A-B, 286-287, 289, 294, 295, 298, 30-301, 302, 307, 311, 340A-B, 340-341, 346, 347, 350, 352-353, 354, 359, 363, 623, 638A-B, 638-641, 642A-B, 642-645, 650, 651, 653, 672, 674-675, 679-680, 683-684, 705

**ASSESSMENT ANCHOR**

**M4.A.3. Compute accurately and fluently and make reasonable estimates**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M4.A.3.1 Apply rounding and/or estimation strategies to solve problems</b>	<b>M4.A.3.1.1 Round whole numbers (including whole dollar amounts) to the nearest ten, hundred, thousand, ten-thousand or hundred-thousand</b>	<b>SE/TE:</b> 20A-B, 20-21, 22A, 23, 26, 27, 29, 46, 48-49, 50, 53, 57, 67, 68A-B, 68-71, 72A, 72-73, 74, 76A, 76-77, 108, 115-116, 118-119
	<b>M4.A.3.1.2 Round amounts of money to the nearest dollar</b>	<b>SE/TE:</b> 77, 83, 108, 118, 286, 632B, 636A
	<b>M4.A.3.1.3 Estimate the answer to addition, subtraction and multiplication problems using whole numbers through 6 digits. (For multiplication, no more than 2 digits X 1 digit, excluding powers of 10)</b>	<b>SE/TE:</b> 68A-B, 68-71, 72A-B, 72-73, 74, 75, 76A, 76-77, 79, 82-83, 108, 111, 114-115, 118-119, 254I, 258A-B, 258-261, 263, 296-297, 298-299, 300-301, 304-305, 308-309, 313, 315, 316A-B, 316-319, 323, 330, 331, 335, 339, 340A-B, 352-353, 354, 356, 360, 365, 422

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.A.3.2 Compute using fractions or decimals (written vertically or horizontally – straight computation only)</b>	<b>M4.A.3.2.1 Solve addition or subtraction problems involving decimals (through hundredths) (decimal numbers must have the same number of places).</b>	<b>SE/TE:</b> 77-78, 81, 84-85, 87, 92, 93, 101, 107, 110-111, 115-116, 119, 623, 638A-B, 638-640, 642A-B, 642-645, 648A, 650, 651, 653, 672, 674-675, 679-680, 683-684, 703
	<b>M4.A.3.2.2 Solve addition or subtraction problems with fractions with like denominators (denominators to 10, no simplifying necessary)</b>	<b>SE/TE:</b> 560I, 560, 562A-B, 562-563, 564A-B, 564-567, 568A-B, 568-571, 572, 573, 574A-B, 574-577, 578A-B, 578, 581, 583, 586, 587, 595, 599, 608, 610-611, 612, 614-615, 618-619

#### 4B. Measurement

##### ASSESSMENT ANCHOR

**M4.B.1. Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.B.1.1 Determine time and/or calculate elapsed time</b>	<b>M4.B.1.1.1 Match/construct analog time (a picture of a clock), to the same time written in digital</b>	<b>SE/TE:</b> 190A-B, 190-191, 195
	<b>M4.B.1.1.2 Identify time (analog or digital) as the amount of minutes before and/or after the hour (e.g., 2:50 is the same as 10 minutes before 3:00; quarter past six is the same as 6:15)</b>	<b>SE/TE:</b> 190A-B, 190-191, 195
	<b>M4.B.1.1.3 Calculate the elapsed time, to the minute, in a given situation (limited to 2 adjacent hours)</b>	<b>SE/TE:</b> 196A-B, 196-197, 198A-B, 198-199, 201, 202, 203, 234A, 234-235, 240, 244, 246, 250, 443, 488, 593, 612, 676

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M4.B.1.1.4 Determine the beginning and/or ending time, given the elapsed time (limited to 2 adjacent hours)</b>	<b>SE/TE:</b> 196A-B, 196-197, 198A-B, 198-199, 201, 202, 203, 234A, 234-235, 240, 244, 246, 250, 443, 488, 593, 612, 676

**ASSESSMENT ANCHOR**

**M4.B.2. Apply appropriate techniques, tools and formulas to determine measurements**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M4.B.2.1 Select and/or use appropriate tools and/or attributes for measuring quantities</b>	<b>M4.B.2.1.1 Use or read a ruler (provided) to measure to the nearest 1/4 inch or centimeter</b>	<b>SE/TE:</b> 588A-B, 588-589, 590A-B, 590-591, 593, 604, 605, 609, 610, 612, 616, 620, 622J, 652A-B, 652-653, 666B, 669, 673
<b>M4.B.2.2 Estimate measurements of figures</b>	<b>M4.B.2.2.1 Make reasonable estimates of weights, lengths and capacities of familiar objects (measurements in the same system)</b>	<b>SE/TE:</b> 422, 432J, 464A-B, 464-467, 468B, 468, 470-471, 472-473, 474A-B, 474, 477, 478A-B, 480, 481, 483, 485, 487, 493, 496-497

## M4C. Geometry

### ASSESSMENT ANCHOR

**M4.C.1 Analyze characteristics and properties of two- and three- dimensional geometric shapes and demonstrate understanding of geometric relationships**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M4.C.1.1 Identify/describe the basic properties of geometric figures in two or three dimensions</b>	<b>M4.C.1.1.1 Identify/classify/compare two- dimensional figures (circle, triangle, square, parallelogram, trapezoid, rhombus, rectangle, pentagon, hexagon, octagon)</b>	<b>SE/TE:</b> 302, 342B, 432I-J, 434A-B, 434-437, 438A-B, 438-439, 443, 444A-B, 444-447, 448A-B, 448-449, 450, 451, 452A-B, 452-455, 456A-B, 456-457, 458A-B, 458-459, 460A-B, 460-461, 462, 463, 464A-B, 464-467, 468A-B, 468-471, 472, 474A-B, 474-475, 477, 478A-B, 478-479, 480, 481, 482-483, 484-485, 486-487, 488, 490-493, 494-497, 676, 726
	<b>M4.C.1.1.2 Identify or classify three-dimensional figures (cube, sphere, rectangular prism and pyramid)</b>	<b>SE/TE:</b> 354, 432, 434A-B, 434-437, 439, 450, 451, 460A-B, 460-461, 473, 474B, 475, 476A-B, 476-477, 478-479, 480, 481, 484-485, 486-487, 490, 492-493, 494, 496-497, 550, 676, 726
<b>M4.C.1.2 Represent and/or use properties or relationships of points, lines, line segments, rays and angles</b>	<b>M4.C.1.2.1 Identify points, lines, line segments or rays</b>	<b>SE/TE:</b> 440A-B, 440-443, 484, 486, 488, 490, 494
	<b>M4.C.1.2.2 Identify parallel and perpendicular lines</b>	<b>SE/TE:</b> 440A-B, 441-442, 447, 484, 486, 490, 494

**ASSESSMENT ANCHOR****M4.C.2. Identify and /or apply concepts of transformations and symmetry**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.C.2.1 Apply the concepts of reflection and symmetry</b>	<b>M4.C.2.1.2 Identify or create figures that have one, two or no lines of symmetry</b>	<b>SE/TE:</b> 456A-B, 456-457, 459, 462, 463, 467, 478B, 478-479, 485, 486-487, 492, 495

**ASSESSMENT ANCHOR****M4.C.3 Locate and describe relationships using the coordinate plane**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.C.3.1 Locate points on a simple grid</b>	<b>M4.C.3.1.1 Match or plot the ordered pair with the appropriate point (or object) on a simple grid</b>	<b>SE/TE:</b> 212A-B, 212-215, 216A-B, 216-219, 222A, 223, 224, 225, 229, 232, 234B, 238-239, 240-241, 242, 243, 245, 248-249, 252, 355, 686, 692A-B, 692-695, 698, 699, 709, 722, 724, 727, 728, 731

**M4D. Algebraic Concepts****ASSESSMENT ANCHOR****M4.D.1. Demonstrate an understanding of patterns, relations and functions**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.D.1.1 Recognize, describe, extend, create and/or replicate a variety of patterns</b>	<b>M4.D.1.1.1 Extend or find a missing element in a numerical or geometric pattern (+, - or x may be used – numerical patterns must be whole numbers)</b>	<b>SE/TE:</b> 8A, 10A-B, 10-11, 37, 90A-B, 90-91, 92, 93, 97, 109, 110-111, 113, 116, 120, 128A-B, 128-131, 136B, 136, 140A-B, 140-143, 256, 275, 283, 312, 314A, 314, 335, 342-343, 351, 355, 363, 366A-B, 366-367, 378, 406B, 406, 423, 449, 454, 474B, 475, 641, 677, 680

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M4.D.1.1.2 Identify/describe the rule for a numerical or geometric pattern shown (+, - or x may be used - numerical patterns must be whole numbers)</b>	<b>SE/TE:</b> 8A, 10A-B, 10-11, 37, 90A-B, 90-91, 92, 93, 97, 109, 110-111, 113, 116, 120, 128A-B, 128-131, 136B, 136, 140A-B, 140-143, 256, 275, 283, 312, 314A, 314, 335, 342-343, 351, 355, 363, 366A-B, 366-367, 378, 406B, 406, 423, 449, 454, 474B, 475, 641, 677, 680
	<b>M4.D.1.1.3 Create or replicate a numerical or geometric pattern showing 3 repetitions (+, - or x may be used - numerical patterns must be whole numbers or money)</b>	<b>SE/TE:</b> 8A, 10A-B, 10-11, 37, 90A-B, 90-91, 92, 93, 97, 109, 110-111, 113, 116, 120, 128A-B, 128-131, 136B, 136, 140A-B, 140-143, 256, 275, 283, 312, 314A, 314, 335, 342-343, 351, 355, 363, 366A-B, 366-367, 378, 406B, 406, 423, 449, 454, 474B, 475, 641, 677, 680
<b>M4.D.1.2 Apply simple function rules</b>	<b>M4.D.1.2.1 Determine the missing elements in a function table (functions may use +, - or x and whole numbers or money)</b>	<b>SE/TE:</b> 98B, 98-99, 105, 111, 127, 140A-B, 140-142, 164A-B, 164-165, 166A, 167, 170, 171, 172-173, 175, 177, 179, 181, 183, 185, 186-187, 303, 342-343, 346, 347, 355, 363, 423, 648B
	<b>M4.D.1.2.2 Determine the rule for a function given a table (functions may use +, - or x and whole numbers)</b>	<b>SE/TE:</b> 98B, 98-99, 105, 111, 127, 140A-B, 140-142, 164A-B, 164-165, 166A, 167, 170, 171, 172-173, 175, 177, 179, 181, 183, 185, 186-187, 303, 342-343, 346, 347, 355, 363, 423, 648B



**ASSESSMENT ANCHOR**

**4D.2. Represent and/or analyze mathematical situations and structures using algebraic symbols, words, tables and graphs**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M4.D.2.1 Use numbers and symbols to model the concepts of expressions and/or equations</b></p>	<p><b>M4.D.2.1.1 Correlate story situations with expressions or equations (may use numbers and one operation +, - or x; no variables)</b></p>	<p><b>SE/TE:</b> 94A-B, 94-95, 96A-B, 96-97, 98A-B, 98-99, 100A-B, 100-101, 104, 105, 109, 110-111, 113, 117, 121, 123, 160A-B, 160-163, 166A-B, 166-167, 170, 171, 173, 175, 179, 183, 187, 191, 195, 261, 263, 281, 335, 337, 373, 383, 389, 396A-B, 396-398, 465, 469, 566, 571, 581, 690A-B, 690-691, 692A-B, 692-695, 698, 699, 722, 724-725, 727, 728, 731</p>
<p><b>M4.D.2.2 Determine the missing number or symbol in a number sentence</b></p>	<p><b>M4.D.2.2.1 Solve for a missing number in an equation (using estimation, guess &amp; check, etc) (May use +, - or single digit x or ÷)</b></p>	<p><b>SE/TE:</b> 100A-B, 100-101, 102A, 109, 111, 113, 117, 121, 131, 132A, 166A-B, 166-167, 168A, 170, 171, 175, 177, 179, 183, 187, 191, 195, 245, 303, 355, 396A-B, 396-398, 401, 423, 489, 533, 551, 727</p>
	<p><b>M4.D.2.2.2 Identify the missing symbol (+, -, x, ÷, =, &lt;, &gt;) that makes a number sentence true (single digit x or ÷ only)</b></p>	<p><b>SE/TE:</b> 17-18, 21, 49, 53, 57, 193, 195, 202, 203, 371, 417, 522-523, 525-527, 528, 529, 533, 535, 537, 542, 543, 549, 554-555, 558-559, 567, 597-598, 604, 618, 631, 633, 634, 635, 659-660, 675, 678, 682, 685</p>

## M4.E. Data Analysis and Probability

### ASSESSMENT ANCHOR

**M4.E.1 Formulate questions that can be addressed with data and/or collect, organize, display and analyze data**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M4.E.1.1 Interpret data shown on tables, charts, line graphs, bar graphs or pictographs</b>	<b>M4.E.1.1.1 Describe, interpret and/or answer questions based on data shown in tables, charts, bar graphs, or pictographs</b>	<b>SE/TE:</b> 13, 188J, 189, 204A-B, 204-205, 206A-B, 206-207, 208A-B, 208-211, 212A-B, 212-215, 216A-B, 216-221, 222A-B, 222-223, 224, 225, 226A-B, 228-229, 230A-B, 230-231, 232A-B, 232-233, 235, 236, 237, 238-239, 240-241, 242-243, 245, 247-249, 251-253, 303, 337, 343, 355, 399, 401, 404B, 405, 415, 423, 536A-B, 536-537, 549, 551, 613, 663, 677, 697, 699
<b>M4.E.1.2 Organize or display data using tables, bar graphs, line graphs or pictographs</b>	<b>M4.E.1.2.1 Graph data or complete a graph given the data (bar graph, or pictograph – grid is provided)</b>	<b>SE/TE:</b> 188J, 206A-B, 206-207, 208A-B, 209-211, 212A-B, 212-215, 216B, 217, 219, 222A-B, 222-223, 224, 225, 232B, 234B, 235, 243, 252, 303, 536A-B, 536-537, 543
	<b>M4.E.1.2.2 Translate information from one type of display to another (table, chart, bar graph, or pictograph)</b>	<b>SE/TE:</b> 140A-B, 140-143, 188J, 206A-B, 206-207, 208A-B, 209-211, 212A-B, 212-215, 216B, 217, 219, 222A-B, 222-223, 224, 225, 230A-B, 230-231, 232B, 234B, 235, 241, 243, 252-253, 303, 536A-B, 536-537

**ASSESSMENT ANCHOR****M4E.2 Understand and apply basic concepts of probability**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M4.E.21 Predict and/or measure the likelihood of events</b>	<b>M4.E.21.1 Make a prediction based on data or chance (data may be shown in tables, charts, line graphs, bar graphs or pictographs)</b>	<b>SE/TE: 140A-B, 140-143, 188J, 206A-B, 206-207, 208A-B, 209-211, 212A-B, 212-215, 216B, 217, 219, 222A-B, 222-223, 224, 225, 230A-B, 230-231, 232B, 234B, 235, 241, 243, 252-253, 303, 536A-B, 536-537</b>

**Scott Foresman – Addison Wesley Mathematics  
to the  
Pennsylvania Math Assessment Anchors 2007  
Grade Five**

**M5.A Numbers and Operations**

**ASSESSMENT ANCHOR**

**M5.A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers and number systems.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.A.1.1 Express numbers in equivalent forms. Reference: 2.1.5.A</b>	<b>M5.A.1.1.1 Use expanded notation to represent whole numbers or decimals (whole numbers less than 10,000,000 and decimals to through hundredths).</b>	<b>SE/TE:</b> 2I, 4A, 4-5, 6A, 7, 17, 21, 50, 52, 60, 190
<b>M5.A.1.2 Demonstrate understanding of place value of whole numbers and decimals. Reference: 2.1.3.I</b>	<b>M5.A.1.2.1 Match the standard form to the word form of decimal numbers through the hundredths.</b>	<i>This anchor can be applied on these pages that address the standard form of thousandths.</i> <b>SE/TE:</b> 8A–B, 8–111
	<b>M5.A.1.2.2 Identify place value of a digit (from millions through hundredths).</b>	<b>SE/TE:</b> 2I, 4A-B, 4-5, 6A, 7, 8A-B, 8-11, 12A-B, 12-13, 14A-B, 14-17, 20, 21, 25, 38B, 44A, 50, 52-53, 56-59, 60-63, 120, 190, 248, 316, 382, 393
<b>M5.A.1.3 Compare quantities or magnitudes of numbers. Reference: 2.11.5.A</b>	<b>M5.A.1.3.1 Compare whole numbers through 9 digits using the words more, less, equal, least, most, greater than, less than or the symbols &lt;, &gt;, =.</b>	<b>SE/TE:</b> 6A-B, 6-7, 11, 20, 21, 53, 56, 60
	<b>M5.A.1.3.2 Compare and/or order decimals through the hundredths (Limit sets for ordering to no more than 4 numbers.)</b>	<i>This anchor can be applied on these pages that address comparing and ordering through thousandths.</i> <b>SE/TE:</b> 12A-B, 12-13, 20, 21, 39, 52-53, 55, 56, 60, 87, 167, 237, 248, 430A, 430-431, 440, 441, 545, 686

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.A.1.3.3 Compare proper fractions through to 16ths with like and unlike denominators.</b>	<b>SE/TE:</b> 418A-B, 418-419, 420A-B, 420-423, 424, 425, 430A, 430-431, 434B, 440, 441, 445, 447, 452, 456, 459, 582, 686
<b>M5.A.1.4 Use simple applications of negative numbers (number line, counting, temperature). Reference: 2.1.5.F</b>	<b>M5.A.1.4.1 Locate/Identify integers on a number line (greater than or equal to -20).</b>	<b>SE/TE:</b> 712A-B, 712-715, 716A-716B, 716-717, 718A-718B, 718-719
	<b>M5.A.1.4.2 Identify negative temperatures on a thermometer (through -20°C or °F).</b>	<b>SE/TE:</b> 568A-B, 568-569, 574, 575, 587, 591, 712-714, 717, 719, 727, 730B, 730, 738, 741, 746
<b>M5.A.1.5 Use or develop models to represent fractions and/or mixed numbers. Reference: 2.1.5.D</b>	<b>M5.A.1.5.1 Use or develop regions and/or sets (e.g., circle graph, base ten blocks) to model fractions and mixed numbers to through hundredths (may include reducing the fractions).</b>	<b>SE/TE:</b> 392I-J, 394A-B, 394-397, 398A-B, 398-399, 400A-B, 400-401, 402A-B, 402-403, 404A-B, 404-405, 408, 409, 410A-B, 410-411, 412A-B, 412-413, 416B, 416, 418A, 418, 420-421, 425, 426-429, 430A-B, 430-431, 438A-B, 440, 441, 444, 446-447, 448, 450-451, 453, 454-455, 458I-J, 460A-B, 462A-B, 462, 465, 466B, 466, 472A, 472, 474B, 476A-B, 478, 490A-B, 490-491, 493, 494A, 496A-B, 496-498, 500B, 500, 502A, 503, 504, 509, 513, 518-519, 521, 525
<b>M5.A.1.6 Apply number theory concepts (i.e., primes, factors, multiples, composites). Reference: 2.1.5.E</b>	<b>M5.A.1.6.1 Define/list/identify prime and composite numbers less than or equal to 100.</b>	<b>SE/TE:</b> 64I, 103, 162A-B, 162-163, 164A-B, 164-167, 170, 171, 186, 188-189, 190, 194, 198, 214B, 248, 273, 305, 382, 393, 414A-B, 414-415, 416A-B, 416-417, 419, 424, 425, 426A, 437, 445, 452, 456, 464A-B, 464-465, 469, 470, 471, 501, 583, 615

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.A.1.6.2</b> <b>Define/list/identify factors and/or multiples of a given whole number less than or equal to 50.</b>	<b>SE/TE:</b> 64I, 75, 103, 155, 162A-B, 162-163, 164A-B, 164-167, 170, 171, 186, 188-189, 190, 194, 198, 214B, 248, 273, 305, 382, 390, 393, 414A-B, 414-415, 416A-B, 416-417, 419, 424, 425, 426A, 437, 445, 452, 456, 464B, 464-465, 469, 470, 471, 501, 514-515, 516, 517, 518-519, 522, 583, 615, 636

### ASSESSMENT ANCHOR

**M5.A.2 Understand the meanings of operations, use operations and understand how they relate to each other.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.A.2.1 Solve problems involving decimals, fractions and/or whole numbers (straight computation or word problems).</b> <b>Reference: 2.2.5.A, 2.2.5.B, 2.2.5.C, 2.2.5.I</b>	<b>M5.A.2.1.1 Solve problems involving addition, subtraction, multiplication and division of whole numbers (multipliers up to 2 digits – divisors one digit) and decimals including money (answer through hundredths – no division with decimals)</b>	<b>SE/TE:</b> 22A-B, 22-25, 34, 35, 36A-B, 36-37, 38A-B, 38-39, 40A-B, 40-41, 46, 47, 50, 52-53, 54-55, 57-59, 61-63, 64-65, 66A-B, 66-67, 68A-B, 68-69, 70A-B, 70-71, 72A-B, 72-75, 76A-B, 76-77, 82, 83, 84A-B, 84-85, 88A-B, 88-91, 92A-B, 92-93, 94A-B, 94-97, 98, 99, 103, 118-119, 122-124, 126-128, 130I-J, 130, 132A-B, 132-135, 136A-B, 136-137, 141, 146, 147, 148A-B, 148-151, 152A-B, 152-155, 156A-B, 156-157, 158A-B, 158-159, 160A-B, 160-161, 163, 168A-B, 168-169, 170, 171, 172A-B, 172-173, 179, 180A, 182-183, 186-187, 188-189, 190, 192-195, 197-199, 200, 223, 229, 230A-B, 230-231, 233, 234-235, 238A-B, 392, 502B, 702A-B, 702-703, 742, 745

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.A.2.1.2 Solve problems involving addition and subtraction of fractions (through 16ths – like and unlike denominators – for unlike denominators, the LCD must be one of the given denominators).</b>	<b>SE/TE:</b> 460A-B, 460-461, 462A-B, 462-463, 464A, 465, 466A-B, 466-468, 470-471, 472A-B, 472-473, 475, 476A-B, 476-477, 478A-B, 478-481, 487, 488-489, 493, 512-513, 514-515, 516-517, 518-520, 522-523
	<b>M5.A.2.1.3 Choose the correct operation(s) to solve a problem (no more than 2 operations).</b>	<b>SE/TE:</b> 22, 24, 33, 36-37, 38-39, 40-41, 46, 47, 52-53, 54-55, 57, 61-63, 64-65, 67, 68-69, 70B, 70-71, 72, 74, 76-77, 85, 88, 90, 93, 94, 96-97, 115, 127-129, 132-135, 137, 146, 147, 148-151, 152. 154-155, 156-157, 159, 160A-B, 160-161, 163, 168A-B, 168-169, 171, 172B, 173, 179, 180B, 187, 189, 192-194, 197-199, 200, 203, 214, 216, 218, 220, 223, 225, 226A-B, 226-227, 229, 231, 232-233, 236, 238A-B, 238-239, 241, 246-247, 248, 255-257, 392, 460-461, 462-463, 471, 473, 476-477, 4748, 480, 482-483, 484A-B, 484-487, 488, 489, 490, 493, 499, 501, 502-503, 504A-B, 504-505, 506A, 510, 511, 521, 525, 700A-B, 700-701, 702A-B, 702-703, 742, 745

**ASSESSMENT ANCHOR**

**M5.A.3 Compute accurately and fluently and make reasonable estimates.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M5.A.3.1 Apply estimation strategies to a variety of problems.</b>  <i>Reference: 2.2.5.D, 2.2.5.E, 2.2.5.G</i></p>	<p><b>M5.A.3.1.1 Round whole numbers through millions and decimals through hundredths.</b></p>	<p><b>SE/TE:</b> 26A-B, 26-27, 31, 34, 35, 37, 52-53, 58, 61, 68B, 68, 86B, 86, 94, 138-139, 200I, 279, 582</p>
	<p><b>M5.A.3.1.2 Use estimation to solve problems involving whole numbers and/or decimals (up to 2-digit multipliers, single-digit divisors or multiples of 10; whole numbers through thousands and decimals through hundredths).</b></p>	<p><b>SE/TE:</b> 26A-B, 26-27, 28A-B, 28-31, 34, 35, 47, 52-53, 54, 58-59, 61-62, 64I, 68A-B, 68-69, 71, 75, 82, 83, 86A-B, 86-87, 88, 91, 93, 94, 98, 99, 118-119, 120, 124, 127, 130I-J, 138A-B, 138-141, 146, 147, 154, 180B, 188, 189, 190, 192-194, 196, 200I, 201, 204A-B, 204-207, 212, 213, 214A-B, 214-215, 218A-B, 221, 225, 233, 236, 247, 250-252, 254, 279, 287, 290-291, 335, 402A-B, 402-403, 405, 408, 409, 446, 450, 454, 494A-B, 494-495, 499, 511, 513, 514-515, 516, 520, 524, 582, 624A-B, 624-625, 628, 633, 635, 640, 643, 698, 703</p>



Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M5.A.3.2 Compute accurately without the use of a calculator (straight computation or 1 operation word problems). Reference: 2.2.5.A</b></p>	<p><b>M5.A.3.2.1 Use addition, subtraction, multiplication and division to compute accurately without a calculator (multipliers up to 2 digits, single-digit divisors or multiples of 10 – whole numbers through thousands and decimals through hundredths- no division with decimals).</b></p>	<p><b>SE/TE:</b> 22A-B, 22-25, 34, 35, 36A-B, 36-37, 38A-B, 38-39, 40A-B, 40-41, 46, 47, 50, 52-53, 54-55, 57-59, 61-63, 64-65, 66A-B, 66-67, 68A-B, 68-69, 70A-B, 70-71, 72A-B, 72-75, 76A-B, 76-77, 82, 83, 84A-B, 84-85, 88A-B, 88-91, 92A-B, 92-93, 94A-B, 94-97, 98, 99, 103, 118-119, 122-124, 126-128, 130I-J, 130, 132A-B, 132-135, 136A-B, 136-137, 141, 146, 147, 148A-B, 148-151, 152A-B, 152-155, 156A-B, 156-157, 158A-B, 158-159, 160A-B, 160-161, 163, 168A-B, 168-169, 170, 171, 172A-B, 172-173, 179, 180A, 182-183, 186-187, 188-189, 190, 192-195, 197-199, 200, 202A-B, 202-203, 223, 229, 230A-B, 230-231, 233, 234A-B, 234-235, 237, 238A-B, 392, 502B, 702A-B, 702-703, 742, 745</p>

## M5.B Measurement

### ASSESSMENT ANCHOR

**M5.B.1 Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M5.B.1.1 Select appropriate units (customary or metric) to measure specific attributes of objects.</b> Reference: 2.3.5.A</p>	<p><b>M5.B.1.1.1 Select the appropriate unit for measuring weight (mass), capacity, length, perimeter and area.</b></p>	<p><b>SE/TE:</b> 27, 49, 62, 211, 213, 248, 316, 526I-J, 526, 528A-B, 528-531, 532A-B, 532-533, 534A-B, 534-535, 536A-B, 536-539, 540A-B, 540-541, 542A-B, 542-545, 546, 547, 548A-B, 548-549, 550B, 550-551, 552A-B, 552-553, 554A-B, 554-555, 558B, 558-559, 560, 561, 563, 572B, 576-577, 578-579, 580-581, 582, 584-586, 588-590, 593, 597, 602A-B, 602-603, 614A-B, 614-615, 616A-B, 616-617, 618, 619, 620A-B, 620-621, 622A-B, 622-623, 625, 626A-B, 626-627, 628, 629, 630-631, 632-633, 636, 638-640, 641-643, 686</p>
<p><b>M5.B.1.2 Solve problems using simple conversions and/or add and subtract measurements.</b> Reference: 2.3.5.D, 2.3.5.E</p>	<p><b>M5.B.1.2.1 Convert using linear measurements, capacity, and weight (mass) within the same system to the unit immediately above or below the given unit (using only the units below). use a conversion chart or a “hint” with problems e.g., hint: 16oz = 1lb).</b></p> <ul style="list-style-type: none"> <li>▪ Metric using mm, cm, m and km; mL and L; g and kg</li> <li>▪ Customary using cup, pint, quart, gallon; in, ft, yd; oz, lb</li> </ul>	<p><b>SE/TE:</b> 54, 71, 76B, 97, 120, 155, 190, 221, 248, 526I-J, 526A-B, 526-529, 533, 534B, 534-535, 536A-B, 536-539, 541, 546, 547, 563, 577, 578, 580, 582, 584, 588, 614A-B, 614-615, 616A-B, 616-617, 618, 619, 620A-B, 620-621, 622A-B, 622-623, 626B, 628, 629, 639-640, 642-643, 674, 686</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.B.1.2.2</b> Add or subtract linear measurements, (inches and feet) or units of time (hours and minutes), without having to regroup with subtraction (answer should be in simplest form).	<b>SE/TE:</b> 529-530, 540A-B, 540-541, 545, 546, 547, 563, 564A-B, 564-567, 569, 570B, 570, 572A-B, 575, 577, 578-579, 580-581, 582-583, 584-585, 587, 589, 591
<b>M5.B.1.3</b> Estimate and/or compare the perimeters or areas of 2 figures without computation. Reference: 2.11.5.E, 2.3.5.C	<b>M5.B.1.3.1</b> Estimate which polygon (shown on a grid) has a greater perimeter or area compare either area to area or perimeter to perimeter).	<b>SE/TE:</b> 526J, 541, 558A-B, 558-559, 560, 561, 572A-B
	<b>M5.B.1.3.2</b> Estimate the area of an irregular figure shown on a grid.	<b>SE/TE:</b> 526I-J, 548A-B, 548-549, 551, 552A-B, 552, 554A-B, 554, 558A-B, 558, 560, 561, 572A, 585, 589

#### ASSESSMENT ANCHOR

**M5.B.2** Apply appropriate techniques, tools and formulas to determine measurements.

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.B.2.1</b> Use appropriate tools to determine measurements. Reference: 2.3.5.B	<b>M5.B.2.1.1</b> Use a ruler to measure to the nearest 1/8 inch or centimeter.	<b>SE/TE:</b> 532A-B, 532-533, 534A-B, 534-535, 542A-B, 542, 546, 547, 580, 584, 588
<b>M5.B.2.2</b> Solve problems involving length, time, weight (mass), capacity, temperature, perimeter and/or area Reference: 2.3.5.A, 2.3.5.B	<b>M5.B.2.2.1</b> Find the perimeter of a figure drawn and labeled (with the same units throughout).	<b>SE/TE:</b> 211, 213, 248, 316, 526I-J, 540A-B, 540-541, 545, 546, 547, 549, 550A-B, 550-551, 552B, 554A, 572A-B, 576-577, 581, 583, 597
	<b>M5.B.2.2.2</b> Find the perimeter or area of a square or rectangle (with the same units throughout - whole numbers only).	<b>SE/TE:</b> 540A-B, 540-541

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.B.2.2.3 Solve problems involving weight, time, temperature, length and capacity (with the same units throughout – limited to 3 digits).</b>	<b>SE/TE:</b> 528A-B, 528-531, 532A-B, 532-533, 534A-B, 534-535, 536A-B, 536-539, 546, 547, 562A-B, 562-563, 564A-B, 564-567, 568A-B, 568-569, 570A-B, 570-571, 572A-B, 572-573, 574, 575, 576-577, 578-579, 580-581, 582, 584, 587, 588, 591, 614A-B, 614-615, 616A-B, 616-617, 618, 619, 620A-B, 620-621, 622A-B, 622-623, 625, 626A-B

## M5.C Geometry

### ASSESSMENT ANCHOR

**M5.C.1 Analyze characteristics and properties of two- and three- dimensional geometric shapes and demonstrate understanding of geometric relationships.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.C.1.1 Define and/or use basic properties of quadrilaterals (parallelograms, squares, rectangles, trapezoids, rhombi), triangles, circles, pyramids, cubes, and/or prisms.</b> <i>Reference: 2.9.5.B, 2.9.5.C, 2.9.5.F, 2.10.5.A</i>	<b>M5.C.1.1.1 Identify, and/or classify/compare cubes, rectangular prisms or pyramids using faces, vertices and edges.</b>	<b>SE/TE:</b> 120, 594A-B, 594-597, 598A-B, 598-601, 602A-B, 602-603, 606A-B, 605, 607, 608-609, 610A-B, 610-613, 615, 618, 619, 629, 632-633, 634, 635, 636, 638-639, 641-642, 686

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M5.C.1.1.2 Identify and/or describe properties of all types of quadrilaterals (parallelogram, rectangle, rhombus, square, trapezoid).</b>	<b>SE/TE:</b> 80A, 120, 190, 210B, 210-211, 213, 248, 316, 326I-J, 326-327, 338, 339, 340A-B, 340-341, 342A-B, 342-345, 346A-B, 346-349, 351, 352A-B, 352-355, 356B, 356-357, 358, 359, 360A-B, 360-363, 367, 368A-B, 368-371, 372A-B, 372-373, 374, 375, 376-377, 378-379, 380-381, 382, 385-387, 389-391, 448, 516, 540A-B, 540-541, 547, 550A-B, 550-551, 552A-B, 552-553, 554A-B, 554-555, 558A-B, 558-559, 560, 561, 571, 572A-B, 576-577, 578-579, 580-581, 582, 585-586, 588-590, 592-593, 597, 606, 609, 625, 647, 686, 689, 709, 721, 740
<b>M5.C.1.2 Represent and/or use properties of lines, line segments, rays, points and planes. Reference: 2.9.5.I</b>	<b>M5.C.1.2.1 Identify, draw and/or label points, lines, line segments and rays</b>	<b>SE/TE:</b> 120, 316, 326, 328A-B, 328-331, 332A-B, 332-335, 337, 338, 339, 34A, 349, 355, 357, 363, 367, 371, 378, 380, 381, 382, 384, 388, 516, 555

**ASSESSMENT ANCHOR**

**M5.C.2 Identify and/or apply concepts of transformations or symmetry.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.C.2.1 Analyze transformations and/or use symmetry to analyze mathematical situations. Reference: 2.9.5.K, 2.9.5.L</b>	<b>M5.C.2.1.1 Draw or identify a translation (slide), reflection (flip) or rotation (turn) of a 2-dimensional shape.</b>	<b>SE/TE:</b> 327, 364A-B, 364-367, 374, 375, 379, 381, 382, 387, 391, 397, 399, 516, 740
	<b>M5.C.2.1.2 Identify the number of lines of symmetry and/or draw all lines of symmetry in a two-dimensional polygon</b>	<b>SE/TE:</b> 368A-B, 368-371

## M5.D Algebraic Concepts

### ASSESSMENT ANCHOR

#### M5.D.1 Demonstrate an understanding of patterns, relations and functions.

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.D.1.1 Create or extend patterns.</b> <i>Reference: 2.8.5.A</i>	<b>M5.D.1.1.1 Extend or find a missing element in a numerical or simple geometric pattern (+, -, x or ÷ of whole numbers). Pattern must show 3 repetitions.</b>	<b>SE/TE:</b> 14A-B, 14-17, 20, 21, 55, 66A-B, 66-67, 69, 84A-B, 84-85, 94A-B, 95, 98, 106A-B, 106-107, 121, 126, 136A-B, 136-137, 141, 142-143, 144A-B, 144-145, 146, 147, 151, 157, 179, 187, 189, 192, 196, 201, 202, 230, 237, 238A, 241, 243, 317, 350, 352A-B, 353-355, 356B, 367, 449, 492, 545, 583, 604, 609, 635, 637, 639, 645, 655, 683, 687, 688-689, 691, 720A-B, 720-721, 722, 723, 727
	<b>M5.D.1.1.2 Create or replicate a numerical or geometric pattern showing 3 repetitions of that pattern (+, -, x or ÷ of whole numbers may be used).</b>	<b>SE/TE:</b> 14A-B, 14-17, 20, 21, 55, 66A-B, 66-67, 69, 84A-B, 84-85, 94A-B, 95, 98, 106A-B, 106-107, 121, 126, 136A-B, 136-137, 141, 142-143, 144A-B, 144-145, 146, 147, 151, 157, 179, 187, 189, 192, 196, 201, 202, 230, 237, 238A, 241, 243, 317, 350, 352A-B, 353-355, 356B, 367, 449, 492, 545, 583, 604, 609, 635, 637, 639, 645, 655, 683, 687, 688-689, 691, 720A-B, 720-721, 722, 723, 727
<b>M5.D.1.2 Analyze patterns.</b> <i>Reference: 2.8.5.C</i>	<b>M5.D.1.2.1 Form a rule based on a given pattern, or illustrate a pattern based on a given rule (+, -, x or ÷ of whole numbers may be used). Patterns must show 3 repetitions.</b>	<b>SE/TE:</b> 14A-B, 14-17, 55, 94A-B, 98, 106A, 106-107, 125, 136A-B, 136-137, 141, 142-143, 144A-B, 144-145, 146, 179, 187, 189, 192, 230, 238A, 241, 243, 350, 352A-B, 353-355, 356B, 492, 545, 645, 652A-B, 652-653, 655, 656, 657, 667, 681, 683, 684, 687, 688-689, 691, 694J, 720A-B, 720-721, 722, 723, 727, 728A-B, 728-729, 737

**ASSESSMENT ANCHOR**

**M5.D.2 Represent and/or analyze mathematical situations using numbers, symbols, words, tables and/or graphs.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M5.D.2.1 Select and/or use appropriate strategies, including concrete materials, to solve or represent expressions or number sentences.</b> <i>Reference: 2.8.5.G, 2.8.5.F</i></p>	<p><b>M5.D.2.1.1 Solve for a missing number (blank, question mark, variable) in an equation involving a single operation whole numbers only.</b></p>	<p><b>SE/TE:</b> 71, 87, 97, 108A-B, 108-109, 112, 113, 117, 119, 121, 125, 129, 133-135, 137, 191, 207, 230-231, 249, 317, 337, 383, 401, 419, 449, 475, 484A-B, 484-486, 505, 513, 540B, 540, 637, 687, 694I-J, 695, 696B, 696-698, 700A-B, 700-701, 706A-B, 706-709, 728A-B, 728-729</p>
	<p><b>M5.D.2.1.2 Match a realistic situation to an equation, expression, inequality (&lt;, &gt;, =), table or graph (variable must be isolated, e.g., <math>17 + 39 = n</math>).</b></p>	<p><b>SE/TE:</b> 7, 11, 13, 16, 18A-B, 18-19, 21, 24-25, 27, 28B, 28, 30, 32B, 33, 35, 37, 39, 42B, 43, 44-45, 47, 49, 51, 55, 69, 70B, 71, 74-75, 77, 78-79, 80B, 90, 96, 100, 104B, 106A-B, 106-107, 109, 110B, 110-111, 112, 113, 115, 118-119, 129, 135, 140, 143, 151, 154, 158B, 162B, 169, 176B, 176, 180-181, 182, 183, 191, 195, 199, 203, 214B, 216, 223, 226B, 226-227, 229, 230B, 232B, 233, 236, 238-239, 247, 249, 256, 259, 262A-B, 262-265, 266A-B, 266-269, 270A-B, 270-273, 274-275, 276A-B, 276-279, 280, 281, 282A-B, 282-285, 286A-B, 286-287, 288A-B, 288-291, 292A-B, 292-293, 294, 295, 296A-B, 296-299, 307, 311, 317, 372-373, 383, 405, 406B, 407, 409, 417, 419, 425, 432-433, 434B, 434-437, 438B, 438-439, 440,</p>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
	(continued)	441, 442, 447, 449, 453, 457, 469, 482-483, 484A-B, 484-487, 504B, 505, 506-507, 510-511, 513, 539, 557, 564A-B, 564-567, 568A-B, 572B, 572-573, 620B, 621, 623, 626B, 626, 629, 637, 644I, 647, 648A, 652A-B, 652-653, 654A, 655, 657, 658-659, 660A-B, 660-661, 662, 664A-B, 664-665, 666, 667, 672B, 676B, 676-677, 679, 680-681, 687, 691-693, 703, 708, 722, 723, 730-731, 734-735, 741

**ASSESSMENT ANCHOR**

**M5.E.1 Formulate or answer questions that can be addressed with data and/or organize, display, interpret or analyze data.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M5.E.1.1 Organize, display and/or interpret data using pictographs, tallies, tables, charts, line, bar graphs.</b>  <i>Reference: 2.6.5.A</i></p>	<p>▪ <b>M5.E.1.1.1 Display and/or interpret data shown in tallies, tables, charts, pictographs, bar graphs, line graphs and using a title, appropriate scale, and labels.</b></p> <p><b>A grid will be provided to display data on bar graphs or line graphs.</b></p>	<p><b>SE/TE:</b> 11, 70B, 260A-B, 260-261, 262A-B, 262-265, 266A-B, 266-269, 270A-B, 270-273, 274-275, 276A-B, 276-279, 280, 281, 282A-B, 282-285, 288A-B, 288-291, 292A-B, 292-293, 294, 295, 297, 305, 306A-B, 306–307</p>



**ASSESSMENT ANCHOR**

**M5.E.2 Select and/or use appropriate statistical methods to analyze data.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.E.2.1 Describe data sets using mean, median, mode and/or range.</b> <i>Reference: 2.6.5.B</i>	<b>M5.E.2.1.1 Determine the mean/average (answer is a whole number), median (answer is a whole number or average of 2 numbers) and range of data (up to 10 numbers).</b>	<b>SE/TE:</b> 271-273, 279, 282A-B, 282-285, 287, 289-290, 294, 295, 311, 312, 317, 319, 323, 383, 449, 517, 637, 687, 741
	<b>M5.E.2.1.2 Identify the mode in a set of data (up to 10 numbers).</b>	<b>SE/TE:</b> 277, 282A-B, 282-285, 289, 294, 295, 312, 319, 323, 383, 741

**ASSESSMENT ANCHOR**

**M5.E.3 Understand and/or apply basic concepts of probability or outcomes.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M5.E.3.1 Predict or determine all possible combinations, outcomes and/or calculate the probability of a simple event.</b> <i>Reference: 2.7.5.E, 2.7.5.H, 2.7.5.J</i>	<b>M5.E.3.1.1 Predict or determine whether some outcomes are certain, more likely, less likely, equally likely, or impossible (information could be represented by pictographs, bar graphs, charts, tables and/or spinners).</b>	<b>SE/TE:</b> 16, 32B, 55, 76B, 80B, 121, 191, 208-209, 210A-B, 210-211, 249, 258J, 262A, 266A-B, 266-269, 291, 296A-B, 296-299, 301, 302A-B, 302-305, 308, 309, 311, 313, 314, 315, 321, 325, 331, 383, 517, 637, 664B, 664-665, 669, 690, 693
	<b>M5.E.3.1.2 Determine the probability of an outcome (e.g., a coin toss, a roll of a number cube) and express as a fraction without reduction.</b>	<b>SE/TE:</b> 121, 191, 249, 296A-B, 296-299, 301, 302A-B, 302-305, 308, 309, 313, 314, 321, 325, 331, 383, 517, 637

**Scott Foresman – Addison Wesley Mathematics  
to the  
Pennsylvania Math Assessment Anchors 2007  
Grade Six**

**M6A. Numbers and Operations**

**ASSESSMENT ANCHOR**

**M6A.1 Demonstrate an understanding of numbers, ways of representing numbers, relationships among numbers, and number systems**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.A.1.1 Express numbers in equivalent forms</b>	<b>M6.A.1.1.1 Represent common percents as fractions and/or decimals (e.g., 25% = <math>\frac{1}{4}</math> = .25) – common percents are 1%, 10%, 25%, 50%, 75%, 100%</b>	<b>SE/TE:</b> 352I-J, 354A-B, 354-357, 358A-B, 358-361, 362A, 364, 365, 366A-B, 366-367, 368A-B, 368-369, 370A-B, 370-371, 377, 380B, 380-381, 384A-B, 384, 386B, 386, 394-395, 396-397, 399, 400-402, 403, 530
	<b>M6.A.1.1.2 Convert between fractions and decimals and differentiate between a terminating decimal and a repeating decimal</b>	<b>SE/TE:</b> 76A-B, 76-77, 79, 84, 85, 86B, 132, 136, 140J, 167, 172A-B, 172-175, 179, 184, 185, 186-187, 188, 190, 197, 201, 205, 209, 238, 251, 269, 352, 358A-B, 358-361, 364, 365, 394, 397, 400, 403, 483
	<b>M6.A.1.1.3 Represent a number in exponential form (e.g., <math>10 \times 10 \times 10 = 10^3</math>)</b>	<b>SE/TE:</b> 8A-B, 8-11, 13, 15, 17, 19, 22, 23, 27, 60, 62-63, 64, 66, 70, 106A-B, 106-109, 110A-B, 110-111, 113, 122, 123, 125, 127, 129, 130, 134-135, 138-139, 140, 147-148, 151, 153, 158-159, 188, 190, 269, 271, 385, 511, 530
	<b>M6.A.1.1.4 Represent a mixed number as an improper fraction.</b>	<b>SE/TE:</b> 168A–B, 168–169, 184

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.A.1.2 Compare quantities and/or magnitudes of numbers</b>	<b>M6.A.1.2.1 Compare and/or order whole numbers, mixed numbers, fractions and/or decimals (do not mix fractions and decimals – decimals through thousandths).</b>	<b>SE/TE:</b> 3, 12A-B, 12-13, 14A, 14-15, 22, 23, 58, 62, 64, 66, 70, 74, 78A-B, 78-79, 81, 84, 85, 126, 128, 132, 136, 141, 176A-B, 176-179, 184, 185, 191, 192, 197, 201, 361, 412A-B, 412-413, 416, 417, 421, 425, 437, 456, 458, 459, 460, 462, 466, 501, 608, 618, 696
<b>M6.A.1.3 Apply number theory concepts (i.e., factors, multiples).</b>	<b>M6.A.1.3.1 Find the Greatest Common Factor (GCF) of two numbers (through 50) and/or use the GCF to simplify fractions.</b>	<b>SE/TE:</b> 140I, 142A-B, 142-145, 146A-B, 146-149, 150A-B, 150-151, 153, 158, 159, 165-166, 190-191, 192, 194, 198, 255, 286, 317, 344, 487, 530
	<b>M6.A.1.3.2 Find the Least Common Multiple (LCM) of two numbers (through 50) and/or use the LCM to find the common denominator of two fractions.</b>	<b>SE/TE:</b> 130, 142A-B, 142-145, 146A-B, 146-149, 151, 152A-B, 152-153, 158, 159, 163, 190-191, 195, 199, 202, 259, 290, 317, 344, 686
	<b>M6.A.1.3.3 Use divisibility rules for 2, 3, 5 and/or 10 to draw conclusions and/or solve problems.</b>	<b>SE/TE:</b> 142A–B, 142–143
<b>M6.A.1.4 Use or develop models to represent percents.</b>	<b>M6.A.1.4.1 Model percents (through 100%) using drawings, graphs and /or set (e.g., circle graph, base ten blocks, etc)</b>	<b>SE/TE:</b> 354A–B, 354–357, 358A–B, 358–361

**ASSESSMENT ANCHOR****M6.A.2. Understand meanings of operations, use operations and understand how they relate to each other**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.A.2.1 Select and/or use operations to simplify or solve problems</b>	<b>M6.A.2.1.1 Complete equations by using the following properties: associative, commutative, distributive and identity.</b>	<b>SE/TE: 28A–B, 28-29, 30A–B, 30-31</b>

**ASSESSMENT ANCHOR****M6.A.3. Compute accurately and fluently and make reasonable estimates**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.A.3.1 Apply estimation strategies to a variety of problems</b>	<b>M6.A.3.1.1 Use estimation to solve problems involving whole numbers and decimals (up to 2-digit divisors and 4 operations)</b>	<b>SE/TE: 3, 16A-B, 16-17, 18A-B, 18-19, 21, 22, 23, 62-63, 64-65, 67, 71, 75, 77, 82A-B, 82-83, 84, 85, 87, 89, 128-129, 130, 132-134, 137, 216A-B, 216-217, 219, 223, 225, 226A-B, 226-227, 230, 231, 235, 236-237, 241, 244, 256A-B, 256-257, 259, 260, 288, 290, 292, 295, 319, 357, 368A-B, 368-369, 371, 378, 381, 393, 394, 396, 398, 404</b>

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M6.A.3.2 Solve problems with and without use of a calculator</b></p>	<p><b>M6.A.3.2.1 Solve problems involving operations (+, -, x, ÷) with whole numbers, decimals (through thousandths) and fractions (avoid complicated LCDs) - straight computation or word problems.</b></p>	<p>Sample references:  <b>SE/TE:</b> 7, 8A-B, 8-11, 13, 15, 17, 24A-B, 24-27, 28A-B, 28-29, 30A-B, 30-31, 32A-B, 32-35, 38, 39, 43, 51, 59, 60, 62-63, 65, 67, 71, 74I-J, 86A-B, 86-89, 90A-B, 90-93, 94A-B, 94-97, 98A-B, 98-99, 100A-B, 100-103, 104, 105, 106A-B, 106-109, 111, 112A, 119, 122, 123, 128-129, 130, 133, 140-141, 142B, 145, 151, 153, 173, 180A-B, 180-181, 202I-J, 203, 204A-B, 204-205, 206A-B, 206-209, 213, 214, 215, 217, 218A-B, 218-219, 220A-B, 220-223, 224A-B, 224-225, 230, 231, 234-235, 236-237, 240-242, 243-245, 248A-B, 248-251, 252A-B, 252-255, 258A-B, 258-259, 260, 261, 266A-B, 266-269, 270A-B, 270-271, 272, 273, 276, 288-289, 290, 292-294, 295-297, 301, 323, 344, 353, 357, 367, 374B, 374, 380-381, 384, 386, 394-395, 398, 401-402, 406-407, 414A-B, 414-415, 425, 460, 470, 530, 545, 549, 590-591, 595, 604-605, 619, 625, 657, 663, 664, 672, 682-683, 686, 706, 730-731, 734</p>

**M6B. Measurement**

**ASSESSMENT ANCHOR**

**6B.1. Demonstrate an understanding of measurable attributes of objects and figures, and the units, systems and processes of measurement**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.B.1.1 Compare and/or determine elapsed time</b>	<b>M6.B.1.1.1 Determine and/or compare elapsed time to the minute (time may cross AM to PM or more than one day).</b>	<b>SE/TE:</b> 192, 238, 344, 554A-B, 554-557, 558-559, 562, 563, 567, 605, 606-607, 608, 611, 615

**ASSESSMENT ANCHOR**

**M6B.2. Apply appropriate techniques, tools and formulas to determine measurements**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.B.2.1 Choose or use appropriate tools and/or units to determine measurements within the same system</b>	<b>M6.B.2.1.1 Use or read a ruler to measure to the nearest 1/16 inch or millimeter.</b>	<b>SE/TE:</b> 471, 501, 542A, 546A, 550A-B, 550-551, 562, 563, 576A-B, 610, 614
	<b>M6.B.2.1.2 Choose the more precise measurement of a given object (e.g., smaller measurements are more precise).</b>	<b>SE/TE:</b> 542A-B, 542-545, 546A-B, 546-549, 550A-B, 550-551, 552A-B, 552-553, 562, 563, 583, 598-599, 604, 607, 610, 614
	<b>M6.B.2.1.3 Measure angles using a protractor up to 180° - protractor must be drawn - one side of the angle to be measured should line up with the straight edge of the protractor.</b>	<b>SE/TE:</b> 476–479

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M6.B.2.2 Solve problems involving length, perimeter, area and/or volume of geometric figures</b>	<b>M6.B.2.2.1 Find the perimeter of any polygon (include regular polygons where only the measure of one side is given – same units of measurement)</b>	<b>SE/TE:</b> 128, 130, 192, 238, 290, 333, 398, 470, 540I, 564A-B, 564-567, 570A-B, 570-571, 582A-B, 584, 585, 603, 604, 606-607, 611-613, 615-616, 704, 724B, 733, 734
<b>M6.B.2.3 Identify, label, and/or list properties of angles or triangles.</b>	<b>6B.2.3.1 Define, label and/or identify right, straight, acute and obtuse angles</b>	<b>SE/TE:</b> 64, 238, 460, 470I, 476A-B, 476-479, 482-483, 492, 493, 496A-B, 496-499, 504, 505, 528-529, 532, 536-537, 551

## M6C. Geometry

### ASSESSMENT ANCHOR

**M6C.1 Analyze characteristics and properties of two- and three- dimensional geometric shapes and demonstrate understanding of geometric relationships**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M6C.1.1 Define and/or use basic properties of triangles, quadrilaterals, pentagons, hexagons, heptagons, octagons, nonagons, decagons and circles</b>	<b>M6.C.1.1.1 Identify, classify and/or compare polygons (up to ten sides.)</b>	<b>SE/TE:</b> 89, 500A–B, 500-501
	<b>M6.C.1.1.2 Identify and/or describe properties of all types of triangles (scalene, equilateral, isosceles, right, acute, obtuse).</b>	<b>SE/TE:</b> 496A–B, 496–499
	<b>M6.C.1.1.3 Identify and/or determine the measure of the diameter and/or radius of a circle (when one or the other is given).</b>	<b>SE/TE:</b> 576A–B, 576–579

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M6.C.1.1.4 Identify and/or use the total number of degrees in a triangle, quadrilateral and/or circle.</b>	<b>SE/TE:</b> 496-498, 500-501, 502-503, 504, 505, 507, 522, 526, 528, 530, 533, 537, 734
<b>M6C.1.2 Represent and/or use concepts and relationships of lines and line segments</b>	<b>M6C.1.2.1 Identify, describe and/or label parallel, perpendicular or intersecting lines</b>	<b>SE/TE:</b> 453, 471, 472A-B, 472-475, 483, 486-487, 492, 493, 502A, 526-527, 528-529, 530, 532-533, 536
	<b>M6.C.1.2.2 Identify, draw and/or label points, planes, lines, line segments, rays, angles and vertices.</b>	<b>SE/TE:</b> 472A–B, 472–475, 476, 484A–B, 484–487

**ASSESSMENT ANCHOR**

**M6.C.2. Locate points or describe relationships using the coordinate plane.**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.C.3.1 Identify, plot or match points given an ordered pair.</b>	<b>M6.C.3.1.1 Plot, locate or identify points in Quadrant I and/or on the x and y axes with intervals of 1, 2, 5 or 10 units - up to a 200 by 200 grid. Points may be in-between lines.</b>	<b>SE/TE:</b> 440A-B, 440-443, 444A, 447, 448A-B, 448-449, 450A, 452, 453, 454-455, 457, 458-459, 465, 469, 471, 510-511, 512, 524-525, 529, 530, 697, 718A-B, 718-721, 724B, 727, 728-729, 730, 732, 738, 741



## M6.D. Algebraic Concepts

### ASSESSMENT ANCHOR

#### M6.D.1. Demonstrate an understanding of patterns, relations and functions

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.D.1.1 Create or extend patterns</b>	<b>M6.D.1.1.1 Create, extend or find a missing element in a pattern displayed in a table, chart or graph (pattern must show at least 3 repetitions- may use up to 2 operations with whole numbers.)</b>	<b>SE/TE:</b> 51, 96, 100, 142B, 163, 193, 195, 210-211, 212A-B, 212-213, 214, 215, 217, 223, 232-233, 234, 236-237, 238-239, 240, 243, 267, 274B, 298I-J, 328B, 338-339, 372, 375, 399, 418B, 444A-B, 444-447, 452, 453, 454-455, 490-491, 513, 520B, 539, 568B, 576, 696I, 716A-B, 716-717, 733,
<b>M6.D.1.2 Analyze patterns</b>	<b>M6.D.1.2.1 Determine a rule based on a pattern or illustrate a pattern based on a given rule (displayed on table, chart or graph; pattern must show at least 3 repetitions)</b>	<b>SE/TE:</b> 51, 96, 100, 142B, 163, 193, 195, 210-211, 212A-B, 212-213, 214, 215, 217, 223, 232-233, 234, 236-237, 238-239, 240, 243, 267, 274B, 298I-J, 328B, 338-339, 372, 375, 399, 418B, 444A-B, 444-447, 452, 453, 454-455, 490-491, 513, 520B, 539, 568B, 576, 696I, 716A-B, 716-717, 733

### ASSESSMENT ANCHOR

#### M6.D.2. Represent and/or analyze mathematical situations and structures using algebraic symbols, words, tables, and graphs

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<b>M6.D.2.1 Select and/or use appropriate strategies to solve number sentences</b>	<b>M6.D.2.1.1 Identify the inverse operation needed to solve a one-step equation.</b>	<b>SE/TE:</b> 44A-B, 44-47, 48A-B, 48-51, 112A-B, 112-113, 116A-B, 116-119, 276A-B, 276-277

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
(continued)	<b>M6.D.2.1.2 Solve a one-step equation (i.e., using the inverse operation -whole numbers only).</b>	<b>SE/TE:</b> 44A-B, 44-47, 48A-B, 48-51, 56, 57, 61, 62-63, 65, 69, 73, 75, 83, 89, 112A-B, 112-113, 116A-B, 116-119, 122, 123, 127, 131, 139, 193, 217, 225, 239, 247, 276A-B, 276-277, 282, 283, 287, 288, 291, 294, 297, 299, 301, 319-320, 322A-B, 322-323, 334B, 342-343, 345, 357, 369, 370A-B, 370, 383, 384, 387, 399, 407, 430A-B, 430-431, 432, 437, 438, 439, 443, 461, 468, 471, 526, 531, 532-533, 549, 627, 667, 671, 687, 697, 712A-B, 712-715, 717, 726, 727, 730, 732-733, 735, 737, 740
<b>M6.D.2.2 Create and/or interpret expressions or equations that model problem situations</b>	<b>M6D.2.2.1 Match an equation or expression involving one variable, to a verbal math situation (one operation only).</b>	<b>SE/TE:</b> 42-43, 44B, 48B, 73, 112A, 113, 114-115, 116A-B, 116-119, 122, 127, 129, 131, 135, 139, 145, 185, 193, 201, 247, 277, 319, 321, 322, 325, 326, 327, 370B, 370, 381, 384, 386, 390, 394-395, 431, 432, 453, 461, 709, 710A-B, 710-711, 712, 716-717, 719-721, 722A-B, 722-723, 724A-B, 725, 726, 727, 731, 732-733, 735, 740

**M6. E. Data Analysis and Probability**

**ASSESSMENT ANCHOR**

**M6.E.1 Formulate questions that can be addressed with data and/or collect, organize, display, and analyze data**

Pennsylvania Assessment Anchors	Eligible Content	Scott Foresman – Addison Wesley Mathematics
<p><b>M6.E.1.1 Interpret data shown in frequency tables, histograms, circle, bar or double bar graphs, line or double line graphs or line plots</b></p>	<p><b>M6.E.1.1.1 Analyze data and/or answer questions pertaining to data represented in frequency tables, circle graphs, double bar graphs, double line graphs or line plots (for circle graphs, no computation with percents)</b></p>	<p><b>SE/TE:</b> 170-171, 182A, 193, 200, 250, 362B, 363, 365, 368, 370, 393, 400, 404, 461, 531, 609, 625, 628A-B, 628-631, 632A-B, 632-633, 634, 635, 636A-B, 636-637, 638A-B, 638-641, 642A-B, 642-645, 646-647, 648A-B, 648-649, 650A-B, 650-651, 652, 653, 657, 674A-B, 674-675, 676B, 678, 682, 684-685, 687, 688-691, 692-695, 735</p>
	<p><b>M6.E.1.1.2 Choose the appropriate representation for a specific set of data (choices should be the same type of graph)</b></p>	<p><b>SE/TE:</b> 531, 609, 625, 628A-B, 628-631, 632A-B, 632-633, 634, 635, 636A-B, 636-637, 638A-B, 638-641, 642A-B, 642-645, 646-647, 648A-B, 648-649, 650A-B, 650-651, 652, 653, 657, 674A-B, 674-675, 676B, 682, 684-685, 688-691, 692-695</p>
	<p><b>M6.E.1.1.3 Display data in frequency tables, circle graphs, double-bar graphs, double line graphs or line plots using a title, appropriate scale, labels and a key when needed. Circle graphs for open-ended items must show a center point and tic marks.</b></p>	<p><b>SE/TE:</b> 628A-B, 628-631, 642A-B, 642-645, 646-647, 648A-B, 648-649</p>

**ASSESSMENT ANCHOR****M6E.2 Select and use appropriate statistical methods to analyze data**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M6E.2.1 Describe data sets using mean, median, mode and/or range</b>	<b>M6.E.2.1.1 Determine/calculate the mean, median, mode and/or range of displayed data (data can be displayed in a table or line plot – use whole numbers only up to 2 digits)</b>	<b>SE/TE:</b> 92, 193, 291, 345, 609, 624A-B, 624-627, 628A-B, 629-631, 632A-B, 632-633, 634, 635, 661, 676A-B, 676-677, 682, 684-685, 687, 688, 692

**ASSESSMENT ANCHOR****M6E.3 Understand and apply basic concepts of probability**

<b>Pennsylvania Assessment Anchors</b>	<b>Eligible Content</b>	<b>Scott Foresman – Addison Wesley Mathematics</b>
<b>M6.E.3.1 Determine all possible combinations, outcomes and/or calculate the probability of a simple event</b>	<b>M6.E.3.1.1 Define and/or find the probability of a simple event (express as a fraction in lowest terms)</b>	<b>SE/TE:</b> 131, 239, 291, 345, 399, 461, 531, 661, 662A-B, 662-663, 664A-B, 664-667, 668A-B, 668-671, 672A-B, 672-673, 678, 679, 683, 685, 687, 690-691, 694-695, 699, 735
	<b>M6.E.3.1.2 Determine/show all possible combinations involving no more than 20 total arrangements (e.g., tree diagram, table, grid)</b>	<b>SE/TE:</b> 38, 65, 193, 239, 262-263, 264A-B, 264-265, 272, 273, 287, 289, 293, 372-373, 376, 496B, 609, 618J, 654A-B, 654-657, 658A-B, 658-661, 662A, 662-663, 668A-B, 671, 678, 679, 683, 685, 687