

A Correlation of

SCOTT FORESMAN ■ ADDISON WESLEY

Mathematics

to the

Connecticut Mastery Test 3rd Generation Grades K-6



O/M-145

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 Connecticut Mastery Test 3rd Generation. 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
Connecticut Mastery Test
Mathematics Content**

Grade 4 Concepts and Skills

Grades K–4

NUMBER SENSE

1. Place Value

1a. Solve problems involving 1 and 10 more or less

- K:** 53-54, 55-56, 57-58, 59-60, 61-62, 63-64, 65-66, 69-70, 71-72, 77-78, 79-80, 81-82, 83-84, 85-86, 87-88, 89-90, 91-92, 93-94, 103-104, 105-106, 107-108, 109-110, 111-112, 113-114, 115-116, 121-122, 287-288, 289-290, 291-292, 293-294, 295-296
- 1:** 11-12, 13-14, 15-15, 17-18, 19-20, 21-22, 25-26, 27-28, 29-30, 31-32, 241-242, 243-244, 245-246, 247-248, 249-250, 281-282, 283-284, 295-296, 297-298
- 2:** 81-82, 83-84, 85-86, 91-92, 95-96, 99-100, 103-104, 391-392, 393-394, 395-396, 397-398, 409-410
- 3:** 6-7, 8-9, 10-11, 12-13, 18-21, 22-23, 24-27, 36-39, 40-41
- 4:** 4-5, 8-9, 10-11, 16-17, 20-21, 22-23

1b. Identify alternative forms of expressing whole numbers using expanded notation

- 1:** 11-12, 13-14, 15-15, 17-18, 19-20, 21-22, 25-26, 27-28, 29-30, 31-32, 241-242, 243-244, 245-246, 247-248, 249-250, 281-282, 283-284, 295-296, 297-298
- 2:** 81-82, 83-84, 85-86, 91-92, 95-96, 99-100, 103-104, 391-392, 393-394, 395-396, 397-398, 409-410
- 3:** 6-7, 8-9, 10-11, 12-13
- 4:** 4-5, 6-7, 8-9, 10-11

1c. Identify alternative forms of expressing whole numbers using regrouping

- 1: 247-248, 249-250, 281-282, 283-284, 285-286, 287-288
- 2: 81-82, 83-84, 91-92, 95-96, 391-392, 393-394, 395-396, 397-398, 399-400
- 3: 6-7, 8-9, 10-11, 12-13, 146-147, 148-149
- 4: 4-5, 8-9, 10-11

1d. Use place value concepts to interpret the meaning of numbers

- 1: 281-282, 283-284, 285-286, 287-288
- 2: 81-82, 83-84, 91-92, 95-96, 391-392, 393-394, 395-396, 397-398, 399-400
- 3: 6-7, 8-9, 10-11, 12-13, 18-21
- 4: 4-5, 6-7, 8-9, 10-11, 16-17

2. Pictorial Representations of Numbers**2a. Relate pictorial representations using base ten blocks to whole numbers and vice versa**

- K: 287-288, 291-292, 295-296
- 1: 247-248, 249-250, 281-282, 283-284, 285-286, 287-288, 303-304
- 2: 81-82, 83-84, 91-92, 95-96, 391-392, 393-394, 395-396, 397-398, 399-400
- 3: 6-7, 8-9, 10-11, 18-21, 126-127, 128-131, 132-135, 148-149, 150-151, 152-155
- 4: 4-5, 6-7, 8-9, 10-11, 132-133

2b. Identify, label or shade fractional parts of regions and sets

- K: 213-214, 215-216, 217-218
- 1: 181-182, 183-184, 185-186, 187-188, 189-190
- 2: 269-270, 271-272, 273-274, 275-276, 277-278, 283
- 3: 502-503, 504-505, 506-509, 510-511, 512-513, 516-517, 518-519, 522-523
- 4: 500-501, 502-503

3. Equivalent Fractions, Decimals and Percents

Connecticut Mastery Test: Not tested at Grade 4

4. Order, Magnitude and Rounding of Numbers**4a. Order whole numbers**

- K:** 65-64, 65-66, 69-70, 91-92, 93-94
- 1:** 31-32, 245-246, 263-264, 301-302
- 2:** 97-98, 99-100, 101-102, 103-104, 399-400, 407-408, 409-410, 419
- 3:** 12-13, 18-19, 22-23
- 4:** 16-19, 20-21

4b. Describe the magnitude of whole #s

- K:** 65-66, 65-66, 69-70, 91-92, 93-94, 121-122, 291-292
- 1:** 31-32, 243-244, 245-246, 263-264, 265-266, 267-268, 295-296, 297-298, 299-300, 301-302
- 2:** 81-82, 83-84, 91-92, 95-96, 97-98, 103-104, 391-392, 393-394, 395-396, 397-398, 399-400, 407-408, 409-410, 419
- 3:** 4-5, 6-7, 10-11, 12-13, 18-19, 22-23, 36-37
- 4:** 4-5, 6-7, 8-9, 10-11, 16-17, 22-23, 28-29, 30-31

4c. Round whole numbers in a context

- 1:** 323
- 2:** 95-96
- 3:** 28-31
- 4:** 20-21, 68-69, 72-73

4d. Identify points representing whole numbers on a number line and vice versa

- K:** 113-114
- 1:** 97-98, 125-126, 299-300
- 2:** 95-96, 229-230
- 3:** 22-23, 24-27, 28-31, 191-192, 208-209, 512-513
- 4:** 16-19, 20-21, 630-631, 632-633

OPERATIONS**5. Models for Operations****5a. Relate multiplication and division facts to rectangular arrays and pictures**

- 1: 451
- 2: 467-468, 469-470, 471-472, 473-474, 475-476, 479-480, 483-484, 485-486
- 3: 32-33, 260-261, 262-265, 266-267, 276-279, 280-281, 282-283, 286-287, 288-289, 316-317, 318-319, 320-323, 324-327, 342-343, 344-345, 370-371, 374-377
- 4: 124-127, 128-131, 132-135, 146-147, 320-321, 374-375

5b. Identify or write the appropriate operation or number sentence to solve a story problem

- K: 253-254, 255-256, 257-258, 273-274, 275-276, 277-278
- 1: 71-72, 79-80, 109-110, 111-112, 131-132, 133-134, 143-144, 145-146, 193, 445-446, 447-448
- 2: 7-8, 9-10, 29-30, 31-32, 57-58, 199-200, 221-222, 235-236, 487-488
- 3: 66-69, 72-73, 74-75, 76-77, 80-81, 86-89, 90-91, 94-95, 96-97, 102-103, 104-105, 106-107, 108-109, 126-127, 132-135, 136-137, 140-143, 148-149, 150-151, 152-155, 156-157, 160-161, 162-165, 166-167, 170-171
- 4: Representative Pages: 24-25, 30-31, 32-33, 62-63, 64-67, 68-71, 72-73, 76-79, 80-81, 82-85, 86-87, 124-127, 136-137, 146-147, 148-149, 150-151, 152-153, 154-155, 156-157, 166-167, 168-169

5c. Write story problems from addition and subtraction number sentences

- 2: 32, 300
- 3: 80-81, 97, 105, 143, 710-711
- 4: 203, 603, 715, 717

6. Basic Facts**6a. Add and subtract facts to 18**

- K: 225-226, 227-228, 229-230, 231-232, 235-236, 237-238, 245-246, 247-248, 251-252, 253-254, 255-256, 265-266, 267-268, 271-272, 273-274, 275-276
- 1: 11-12, 13-14, 15-16, 17-18, 25-26, 27-28, 45-46, 47-48, 49-50, 51-52, 53-54, 57-58, 61-62, 63-64, 65-66, 67-68, 83, 91-92, 93-94, 95-96, 97-98, 103-104, 105-106, 107-108, 125-126, 127-128, 129-130, 133-134, 137-138, 139-140, 141-142, 149, 417-418, 419-420, 421-422, 423-424, 425-426, 435-436, 437-438, 439-440, 441-442, 443-444

- 2: 3-4, 5-6, 9-10, 13-14, 17-18, 25-26, 27-28, 43-44, 45-46, 47-48, 51-52, 53-54, 57-58, 61-62, 63-64, 65-66, 67-68
- 3: 70-71, 72-73, 80-81, 82-83, 94-95, 96-97
- 4: 62-63, 63-64

6b. Multiply and divide by 2, 5 and 10

- 1: 451
- 2: 467-468, 469-470, 471-472, 473-474, 483-484, 485-486
- 3: 276-279, 280-281, 282-283, 386-387, 402-403
- 4: 124-125, 128-129, 136-137

7. Computation with Whole Numbers and Decimals**7a. Add and subtract 1– and 2–digit numbers without regrouping**

- K: 225-226, 227-228, 229-230, 231-232, 235-236, 237-238, 245-246, 247-248, 251-252, 253-254, 255-256, 265-266, 267-268, 271-272, 273-274, 275-276
- 1: 45-46, 47-48, 49-50, 51-52, 53-54, 63-64, 65-66, 67-68, 69-70, 91-92, 93-94, 95-96, 103-104, 105-106, 107-108, 125-126, 127-128, 129-130, 427-428, 459-460, 461-462, 463-464, 471-472, 473-474, 475-476
- 2: 3-4, 5-6, 13-14, 15-16, 17-18, 23-24, 49-50, 51-52, 53-54, 61-62, 63-64, 135-136, 137-138, 139-140, 145-146, 147-148
- 3: 70-71, 72-73, 80-81, 82-83, 572-573
- 4: 62-63, 64-65, 72-73

7b. Add 1– and 2–digit numbers with regrouping

- 1: 465-466, 477-478
- 2: 175-176, 177-178, 179-180, 181-182, 185-186, 187-188, 193-194
- 3: 80-81, 82-83, 146-147, 520-521, 522-523, 528
- 4: 62-63, 76-79, 80-81, 86-87

8. Computation with Fractions

Connecticut Mastery Test: Not tested at Grade 4

9. Solve Word Problems**9a. Solve simple story problems involving addition and subtraction**

- K:** 239-240, 279-280
- 1:** 55-56, 57-58, 79-80, 109-110, 111-112, 113-114, 131-132, 133-134, 445-446, 447-448
- 2:** 3-4, 5-6, 7-8, 9-10, 13-14, 15-16, 17-18, 19-20, 23-24, 25-26, 43-44, 45-46, 47-48, 49-50, 51-52, 53-54, 57-58, 63-64, 65-66, 135-136, 137-138, 141-142, 145-146, 149-150, 161-162, 179-180, 185-186, 189-190, 197-198, 199-200, 211-212, 213-214, 221-222, 225-226, 229-230, 233-234, 235-236, 431-432, 447-448, 453-454, 455-456
- 3:** 66-69, 72-73, 74-75, 76-77, 80-81, 86-89, 90-91, 94-95, 96-97, 102-103, 104-105, 106-107, 108-109, 126-127, 132-135, 136-137, 140-143, 148-149, 150-151, 152-155, 156-157, 160-161, 162-165, 166-167, 170-171, 541
- 4:** 24-25, 62-63, 64-67, 68-71, 72-73, 76-79, 80-81, 82-85, 86, 90-91, 94-95, 96-97, 98-99, 100-101

9b. Solve simple story problems involving addition and subtraction with extraneous information

- 1:** 99-100
- 2:** 233-234
- 3:** 540-541
- 4:** 107-108, 696-697

ESTIMATION AND APPROXIMATION**10. Numerical Estimation Strategies****10a. Identify the best expression to find an estimate**

- K:** 119-120, 127-128
- 1:** 249-250
- 2:** 141-142, 149-150, 229-230
- 3:** 86-89, 90-91, 98-101
- 4:** 68-69, 72-73, 74-75

10b. Determine the reasonable estimate and describe the strategy used to make the estimate

- K:** 119-120, 127-128
- 1:** 249-250, 365-366, 371-372, 373-374, 375-376, 383-384, 389-390, 467-468
- 2:** 141-142, 149-150, 191-192, 229-230, 297-298, 429-430, 445-446
- 3:** 86-89, 90-91, 98-101
- 4:** 68-71, 72-73, 258-259, 316-317, 368-369

11. Estimating Solutions to Problems**11a. Estimate a reasonable answer to a problem**

- 1:** 249-250, 365-366, 371-372, 373-374, 375-376, 383-384, 389-390, 467-468
- 2:** 141-142, 149-150, 191-192, 229-230, 297-298, 429-430, 445-446
- 3:** 72-73, 90-91, 98-101, 102-103, 104-105, 616-617, 622-623
- 4:** 68-71, 72-73, 258-261, 316-319, 368-371

11b. Use estimation to make and defend decisions

- 1:** 249-250, 365-366, 371-372, 373-374, 375-376, 383-384, 389-390, 467-468
- 2:** 141-142, 149-150, 191-192, 229-230, 297-298, 429-430, 445-446
- 3:** 72-73, 90-91, 98-101, 102-103, 104-105, 510-511, 516-517, 616-617, 622-623
- 4:** 68-71, 72-73, 258-261, 316-319, 368-371, 611

12. Ratios and proportions

Connecticut Mastery Test: Not tested at Grade 4

13. Computation with Percents

Connecticut Mastery Test: Not tested at Grade 4

MEASUREMENT**14. Time****14a. Tell time to the nearest hour, half-hour, and quarter-hour using analog and digital clocks**

- K:** 171-172, 173-174, 175-176
- 1:** 205-206, 207-208, 209-210, 211-212
- 2:** 291-292, 293-294, 295-296
- 3:** 192-195, 196-197, 198-199
- 4:** 190-191, 192-195

14b. Solve problems involving time, elapsed time and calendars

- K:** 161-162, 163-164, 165-166, 167-168, 171-172, 173-174, 175-176, 177-178
- 1:** 205-206, 213-214, 215-216, 221-222, 225-226, 227-228
- 2:** 297-298, 299-300, 301-302, 303-304
- 3:** 198-199, 200-201
- 4:** 196-197, 200-201

15. Approximating Measures**15. Estimate lengths and areas**

- K:** 141-142
- 1:** 365-366, 369-370, 371-372, 373-374, 375-376, 379-380
- 2:** 341-342, 343-344, 345-346, 347-348, 379
- 3:** 464-467, 468-471, 532-533, 534-535, 536-537, 538-539, 582-583, 584-585
- 4:** 468-469, 588-589, 652-653, 661-662

16. Customary and Metric Measures**16a. Measure or draw lengths to the nearest inch or centimeter**

- 1:** 371-372, 373-374, 375-376
- 2:** 343-344, 345-346, 347-348
- 3:** 532-533, 534-535, 536-537, 582-583
- 4:** 588-589, 590-591, 596-597, 652-653

16b. Identify an appropriate customary or metric measure for a given situation

- K:** 139-140
1: 377-378, 385-386, 387-388, 391-392, 393-394, 395-396
2: 341-342, 343-344, 345-346, 347-348, 355-356, 357-358, 365-366, 367-368, 369-370
3: 532-533, 534-535, 536-537, 538-539, 546-547, 582-583, 584-587
4: 588-589, 592-593, 594-595, 652-653, 654-655, 656-657, 658-659

SPATIAL RELATIONSHIPS AND GEOMETRY**17. Geometric Shapes Metric Measures****17a. Identify geometric shapes and figures and properties including the number of angles and sides of polygons**

- K:** 197-198, 199-200, 201-202, 203-204, 205-206, 219-220
1: 157-158, 159-160, 161-162, 163, 165-166, 167-168, 169-170
2: 247-248, 249-250, 251-252, 255-256, 257-258, 259-260, 261-262
3: 442-443, 444-445, 446-449, 450-453, 454-455, 456-459, 460-461
4: 438-439, 440-441

17b. Draw geometric shapes and figures

- K:** Can be developed from 197-198, 199-200, 201-202, 203-204, 205-206
1: 166, 168, 170, 173
2: 247-248, 249-250, 251-252, 255-256, 257-258, 259-260, 261-262
3: 455-456, 464-465, 468-469, 472-473
4: 434-437, 438-439, 440-443, 444-447, 448-449

18. Spatial Relationships

Connecticut Mastery Test: Not tested at Grade 4

PROBABILITY AND STATISTICS**19. Tables, Graphs and Charts****19a. Identify correct information from graphs, tables and charts**

- K:** 29-30, 31-32, 33-34, 47
1: 175-176, 191-192, 223-224, 251-252, 317-318, 339-340, 429-430, 479-480
2: 105-106, 189-190, 319-320, 321-322, 323-324, 325-326, 327-328, 405-406

- 3: 204-207, 208-209, 212-215, 222-223
- 4: 204-205, 206-207, 208-211

19b. Create bar graphs and pictographs from data in tables and charts

- K: 29-30, 31-32, 33-34, 47, 67-68
- 1: 309-310, 311-312, 313-314, 324, 431-432, 481-482
- 2: 311-312, 313-314, 319-320, 321-322, 323-324, 325-326, 437-438, 439-440
- 3: 208-209, 211-212, 226-227, 228-229, 230-231, 232-233, 235-236, 238-239
- 4: 204-205, 206-207, 208-211

20. Statistics and Data Analysis

Connecticut Mastery Test: Not tested at Grade 4

21. Probability**21. Solve problems involving elementary notions of probability**

- K: Can be developed from 125-126
- 1: 401-402, 403-404
- 2: 373-374, 375-376
- 3: 700-701, 702-703, 704-707
- 4: 700-703, 704-705, 706-709, 710-711

PATTERNS**22. Patterns****22. Extend or complete patterns involving whole numbers and attributes and identify or state rules for given patterns**

- K: 26, 35-36, 37-38, 39-40, 41-42, 43-44, 45-46, 48, 95-96, 297-298
- 1: 3-4, 5-6, 7-8, 9-10, 33-34, 37, 194, 255-256, 257-258, 261-262, 273
- 2: 99-100, 135-136, 145-146, 157-158, 247-248, 249-250, 413-414
- 3: 24-25, 66-67, 70-71, 72-73, 76-77, 88-89, 90-91, 168-169, 260-261, 262-263, 286-287, 342-343, 344-345, 404
- 4: 10-11, 164-165, 366-367

ALGEBRA AND FUNCTIONS**23. Algebraic Concepts**

Connecticut Mastery Test: Not tested at Grade 4

DISCRETE MATHEMATICS**24. Classification and Logical Reasoning****24a. Identify objects that are the same or different by one attribute**

- K:** 11-12, 13-14
- 1:** 157-158, 159-160, 161-162, 165-166, 167-168, 169-170
- 2:** 247-248, 249-250, 255-256
- 3:** 444-445, 451-452, 454-455, 456-457
- 4:** 434-437, 438-439, 440-443, 444-447, 452-455, 458-459

24b. Sort objects into two groups by a common attribute

- K:** 15-16, 17-18, 19-20, 21-22, 23
- 1:** Can be developed from 157-158, 159-160, 161-162, 165-166, 167-168, 169-170
- 2:** Can be developed from 247-248, 249-250, 255-256
- 3:** 447-448, 451-452
- 4:** 434-437, 438-439, 440-443, 444-447, 452-455, 458-

INTEGRATED UNDERSTANDINGS**25. Mathematical Applications****25. Solve extended numerical and statistical problems**

- K:** 217-218
- 1:** 269-270, 289-290, 291-292, 319-320, 349-350, 351-352, 353-354, 405-406, 483-484
- 2:** 55-56, 69-70, 123-124, 155-156, 163-164, 197-198, 279-280, 329-330, 351-352, 377-378, 415-416, 455-456, 477-478, 487-490
- 3:** 208-209, 226-227, 230-231, 232-233
- 4:** 226-227, 230-231, 232-233

**Scott Foresman – Addison Wesley Mathematics
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Mathematics Content**

Grade 6 Concepts and Skills

Grades 5–6

NUMBER SENSE

1. Place Value

1a. Solve problems involving 100 and 1000 more or less

5: 4-5, 6-7, 8-9, 12-13, 14-15

6: 4-5, 12-13

1b. Identify alternative forms of expressing whole numbers < 10, 000 using expanded notation

5: 4-5, 8-11, 14-17

6: 4-5, 8-9

1c. Identify alternative forms of expressing whole numbers < 10, 000 using regrouping

5: 4-5, 12-13, 14-15

6: 4-5, 8-9, 12-13

1d. Use place value concepts to interpret the meaning of numbers

5: 4-5, 6-7, 8-11, 12-13, 14-15

6: 4-5, 12-13, 20-21

2. Pictorial Representations of Numbers

2a. Relate decimals (0.01 – 2.99) to pictorial representations and vice versa

5: 8-11, 12-13, 14-17

6: 76-77, 78-79, 80-81

2b. Relate fractions and mixed numbers to pictures and vice versa

5: 394-395, 400-401, 402-403, 404-405

6: 160-161, 164-165, 168-169, 170-171, 204-205, 206-207, 216-217, 248-249

2c. Construct pictorial representations of fractions, mixed numbers and decimals

5: 398-399, 410-411, 426-428

6: 160-161, 164-165, 168-169, 170-171, 172-173, 176-177, 251

3. Equivalent Fractions, Decimals and Percents**3a. Rename equivalent fractions**

5: 410-411, 412-413

6: 164-165, 168-169, 170-171, 176-177, 302-305, 306-308, 316-317

3b. Rename equivalent mixed numbers and improper fractions

5: 400-401, 412-413, 474-475, 476-477

6: 168-169, 172-173, 176-177, 302-303, 306-307, 316-317

4. Order, Magnitude and Rounding of Numbers**4a. Order whole numbers less than 100, 000**

5: 6-7, 12-13

6: 12-13, 14-15

4b. Order fractions, mixed numbers and decimals

5: 418-419, 420-421, 512

6: 78-79, 172-173, 176-177

4c. Describe the magnitude of whole numbers less than 100, 000

5: 4-5, 6-7

6: 4-7, 8-11, 12-13

4d. Describe the magnitude of fractions, mixed numbers and decimals

5: 8-11, 12-13, 14-17, 26-27, 28-29, 394-397, 398-399, 400-401, 404-405

6: 76-77, 78-79, 160-163, 164-167, 168-169, 170-171, 172-175, 176-179, 358-359

4e. Round whole numbers in a context

5: 26-27, 28-29, 36-37

6: 14-15, 16-17, 18-19

4f. Round decimals in a context

5: 26-27, 38-39, 40-41

6: 80-81, 82-83, 176-177

4g. Locate points on number lines and scales

5: 8-11, 404-405, 430-431, 534

6: 14-15, 78-79, 176-177, 408-409, 410-411, 412-413, 698-699

OPERATIONS**5. Models for Operations****5a. Identify the appropriate operation or number sentence to solve a story problem**

5: 76-77, 106-138, 147, 151, 155

6: 20-21, 28-29, 36-37, 48-49, 52-53, 54-55, 180-181, 710-711

5b. Write story problems from multiplication and division number sentences

5: 109-111

6: 105-106, 113-114, 121-122, 123-124, 412-513, 674

6. Basic Facts**6. Multiply and divide facts**5: 72-75, 88-89, 91-95, 132-135, 152-155, 202-203, 204-207, 224-225,
230-231

6: 18-19, 24-27, 28-29, 30-31

7. Computation with Whole Numbers and Decimals**7a. Add and subtract 2-, 3- and 4- digit whole numbers and money amounts less than \$100.**

5: 22-23, 28-29, 34-35, 36-37

6: 16-17, 24-25, 28-29, 32-33, 34, 36-37

7b. Multiply and divide multiples of 10 and 100 by 10 and 100

5: 66-67, 202, 230-231

6: 106-107, 110-111, 142-143, 354-355, 358-359, 546-547

7c. Multiply and divide 2- and 3-digit whole numbers and money amounts less than \$10 by 1-digit numbers

5: 60-61, 68-69, 72-73, 76-77

6: 90-92, 94-95, 428-429, 430-431

8. Computation with Fractions**8. Add and subtract fractions and mixed numbers with like denominators**

5: 460-461, 472-473, 478-479

6: 204-205, 216-217, 218-219, 220-221, 224-225

9. Solve Word Problems**9a. Solve 1-step problems involving whole numbers and money amounts**

5: 108-109, 137, 163, 233, 700-702

6: 77, 83, 112-113, 116-117, 211

9b. Solve 2-step problems involving whole numbers and money amounts

5: 701-702, 703-704

6: 156-157, 180-181, 278-279, 306-307

9c. Solve 2-step problems and explain how the solution was determined

5: 701-702, 703-704, 705-706

6: 156-157, 180-181, 311, 313, 317

ESTIMATION AND APPROXIMATION**10. Numerical Estimation Strategies****10a. Identify the best expression to find an estimate**

5: 28-29, 68-79, 86-87, 138-139, 204-205

6: 16-17, 18-19, 82-83, 170-171, 216-217, 256-257

10b. Identify whether and why a particular strategy will result in an overestimate or an underestimate

5: 68-69, 86-87, 136-141, 215

6: 16, 18-19, 82-83

10c. Determine a reasonable estimate and describe the strategy used to make the estimate

5: 28, 68, 86-87, 186-187

6: 16-17, 18-19, 82-83, 170-171, 368-369

11. Estimating Solutions to Problems

11a. Estimate a reasonable answer to a problem

5: 28-29, 86-87, 138-139

6: 16-17, 18-19, 82-83, 170-171, 368-369

11b. Use estimation to make and defend decisions.

5: 86-87, 138-139

6: 19-20, 82-83, 85-86

12. Ratios and Proportions

Connecticut Mastery Test: Not tested at Grade 6

13. Computation with Percents

Connecticut Mastery Test: Not tested at Grade 6

MEASUREMENT

14. Time

14a. Solve problems involving elapsed time

5: 562-563, 564-565

6: 554-557, 558-559, 560-561

14b. Solve problems involving the conversion of measures of time

5: 562-563, 564-565

6: 554-557, 558-559, 560-561

15. Approximating Measures**15. Estimate lengths and areas**

- 5: 541-544, 548-549, 550-551, 552-553, 554-555
6: 542-543, 546-547, 550-551, 552-553

16. Customary and Metric Measures**16a. Solve problems involving the conversion of measures of length**

- 5: 530, 533, 536, 537, 623
6: 542-545, 546-549, 550-551, 552-553

16b. Measure lengths to the metric or customary unit specified

- 5: 534-535, 536-537
6: 542-545, 546-549, 550-551

16c. Measure/determine perimeter and area

- 5: 540-543, 548-551, 552-555
6: 564-565, 568-569, 570-571, 576-577, 580-581, 590-591

16d. Identify appropriate customary or metric units of measure (length, capacity, mass) for a given situation

- 5: 535-536, 614-615, 616-617
6: 542-545, 546-549, 550-551, 552-553

SPATIAL RELATIONSHIPS AND GEOMETRY**17. Geometric Shapes and Properties****17a. Identify and draw geometric shapes and figures**

- 5: 549, 551, 558-559, 598-599
6: 490-491, 494-495, 496-497, 500-501, 502-503, 586-588

17b. Describe and classify geometric shapes and figures

- 5: 332-333, 340-341, 342-343, 346-347
6: 472, 476, 494, 496, 500-502, 506

18. Spatial Relationships**18a. Identify or draw lines of symmetry**

5: 364-365, 368-369

6: 514-515, 516-517

18b. Identify congruent figures

5: 360-362, 364-365

6: 506-507, 510-511, 512-513, 516-517

18c. Locate points on grids

5: 174-175, 177, 652-653

6: 440-491, 448-449

PROBABILITY AND STATISTICS**19. Tables, Graphs and Charts****19a. Identify correct information from graphs, tables and charts**

5: 260-261, 262-263, 266-267, 270-271

6: 444-445, 628-629, 636-637, 638-639, 642-643, 646-647

19b. Create bar graphs and pictographs from data in tables and charts

5: 261, 263, 267, 276-277, 271

6: 636-637, 638-639, 642-643, 648-649

20. Statistics and Data Analysis**20. Draw and justify reasonable conclusions from graphs, tables and charts**

5: 263-265, 266, 272, 275, 277

6: 637-640, 643-644, 649-650, 650-651, 674-675

21. Probability**21. Solve problems involving elementary notions of probability and fairness, including justifying answers**

5: 296-297, 300-301, 302-303, 306-307

6: 654-655, 662-663, 664-665, 668-669, 672-673

PATTERNS**22. Patterns**

22. Extend or complete patterns involving numbers and attributes, and identify or state rules for given patterns

5: 14-17, 66-67, 75, 84-85, 106, 136-137, 142-143, 202-203, 237, 558

6: 444-447, 516-517, 658-659, 716-717

ALGEBRA AND FUNCTIONS**23. Algebraic Concepts**

23. Solve simple 1–step algebraic equations

5: 696-699, 700-701, 702-703, 706-709

6: 44-45, 48-51, 112-113, 116-119, 276-277, 328-329, 382, 383, 385, 387, 430-431

DISCRETE MATHEMATICS**24. Classification and Logical Reasoning**

24. Solve problems involving the organization of data

5: 269, 282-283, 286-287

6: 620-621, 628-629, 632-633, 641

INTEGRATED UNDERSTANDINGS**25. Mathematical Applications**

25. Solve extended numerical, spatial and statistical problems

5: 282-285, 594-595, 598-599

6: 586-588, 590-591, 594-595, 624-625