



Louisiana Math Standards /Excel Math Correlation
6th Grade

Unit #	LOUISIANA EXPECTATIONS FOR MATH	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
Number and Number Relations			
1	1. Factor whole numbers into primes (N-1-M)	50	72, 88
1	2. Determine common factors and common multiples for pairs of whole numbers (N-1-M)	1, 9, 17, 26, 50, 64, 103, 132 Factorials: 150	67 Activity 11, 12
1,5	3. Find the greatest common factor (GCF) and least common multiple (LCM) for whole numbers in the context of problem-solving (N-1-M)	*1, 17, 56, *64	90, 92, 99, 139
3	4. Recognize and compute equivalent representations of fractions and decimals (i.e., halves, thirds, fourths, fifths, eighths, tenths, hundredths) (N-1-M) (N-3-M)	5, 18, 35, 44, 46, 47, 48, 57, 62, 71, 78, 83, 87, 90, 94, 97, 99, 110, 111, 129, 133, 135, 148 Reciprocals: 101	Activity 12
3,5	5. Decide which representation (i.e., fraction or decimal) of a positive number is appropriate in a real-life situation (N-1-M) (N-5-M)	1, *5, 9, *18, 19, 31, 42, 43, 67, 69, 72, 79, 86, 87, 92, 94, 96, 99, 117, 126, 133, 141, 152, 153	2, 6, 7, 9, 10, 12, 18, 25, 35, 38, 42, 43, 46, 84, 85, 93
3,8	6. Compare positive fractions, decimals, and positive and negative integers using symbols (i.e., <, =, >) and number lines (N-2-M)	2, 18, 22, 27, 35, 44, 46, 47, 49, 52, 53, 57, 66, 70, 74, 83, 87, 94, 97, 99, 110, 111, 113, 127, 130, 131, 135 Distributive, Associative, Commutative: 37	3, 23, *29, 41
3	7. Read and write numerals and words for decimals through ten-thousandths (N-3-M)	*1, 35, *44, *46, *49, 61, 95, 108 Whole Numbers: 24, 58 Fractions: 5	144 Activity 12
8	8. Demonstrate the meaning of positive and negative numbers and their opposites in real-life situations (N-3-M) (N-5-M)	58, *63, 109, *130, *131, *143, *144, *155 Odd / Even: 19, 75	
5	9. Add and subtract fractions and decimals in real-life situations (N-5-M)	1, 5, *28, 31, 39, 48, *61, *62, *78, 79, 86, 93, 110, 146 Multiply: 51, 85, 94, 104, 106, 110, 112, 117, 120 Divide: 118, 126, 128, *138, 142, 153	18, 35, 38, 49, 85, 93, 96, 110, 150
3	10. Use and explain estimation strategies to predict computational results with positive fractions and decimals (N-6-M)	*19, *31, *44, 49, *61, *79, 81, 86, 123 Whole Numbers: 20, 134	*12, 35, 85 Whole Numbers: 20, 31, 32



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1	11. Mentally multiply and divide by powers of 10 (e.g., $25/10 = 2.5$; $12.56 \times 100 = 1,256$) (N-6-M)	12, *20, 24, 31, *37, 42, *43, *44, 58, 81, 94, 102, 107	Activity 12
7	12. Divide 4-digit numbers by 2-digit numbers with the quotient written as a mixed number or a decimal (N-7-M)	6, *9, 16, *26, 38, 41, 52, 62, 81, 82, 102, 103, 107, 128, 132, 134, 136, 140, 147 Multiply: 122	42, 76, 78, 87, 102, 111, 115, 130, 155
3	13. Use models and pictures to explain concepts or solve problems involving ratio, proportion, and percent with whole numbers (N-8-M)	40, 44, 48, 52, 66, 67, 71, 90, 94, 97, 98, 99, 105, 110, 111, 116, 127, 129, 133, 135	48, *50, 54, 109, 143, 147, 152 Activity 4, 6, 12
Algebra			
1,4,8	14. Model and identify perfect squares up to 144 (A-1-M)	77	
4,8	15. Match algebraic equations and expressions with verbal statements and vice versa (A-1-M) (A-3-M) (A-5-M) (P-2-M)	3, 4, 6, 18, 31, 42, 43, 48, 54, 59, 67, 69, 72, 76, 96, 100, 114, 115, 116, 148	1, 2, 5, 6, 7, 9, 10, 12, 16, 17, 20, 21, 22, 24, 26, 27, 28, 30, 31, 32, 37, 39, 40, 41, 42, 44, 46, 47, 50, 54, 59, 60, 63, 65, 68, 69, 75, 76, 81, 82, 86, 89, 91, 93, 101, 111, 123, 124, 154
4,8	16. Evaluate simple algebraic expressions using substitution (A-2-M)	3, 4, *18, 48, 61, 83, 100, 114, 115, 148	1, 5, 6, 8, 16, 20, 21, 31, 32, 39, 40, 41, 68, 69, 73, 78, 81, 82, 83, 86, 87, 96, 98, 102, 110, 113, 115, 117, 124, 126, 130, 133, 142, 155
4,8	17. Find solutions to 2-step equations with positive integer solutions (e.g., $3x - 5 = 13$, $2x + 3x = 20$) (A-2-M)	3, 6, 18, 37, 43, 48, 54, 57, 59, 61, 67, 69, 72, 91, 92, 96, 114, 115, 148	2, 5, 6, 7, 10, 12, *17, 21, 22, 24, 27, 28, 30, 31, 32, 37, 39, 40, 41, 42, 44, 46, 47, 50, 54, 59, 60, 62, 63, 65, 67, 68, 69, 70, 75, 76, 77, 81, 82, 86, 89, 91, 93, 101, 111, 124, 126, 132, 133, 138, 154
Measurement			
3,4,5	18. Measure length and read linear measurements to the nearest sixteenth-inch and mm (M-1-M)	10, 11	39, 54
4	19. Calculate perimeter and area of triangles, parallelograms, and trapezoids (M-1-M)	30, 75, 121, 139 Surface Area: 100 Volume: 59, 108, 139	28, 39, 55, 56, 63, 77, *84 Volume: 59 Activity 3, 4
3	20. Calculate, interpret, and compare rates such as \$/lb., mpg, and mph (M-1-M) (A-5-M)	10, 11, *40, 89, 151 Time: 13, 43 Scale Map: 29	39, 48, 74, 111



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4	21. Demonstrate an intuitive sense of relative sizes of common units for length and area of familiar objects in real-life problems (e.g., estimate the area of a desktop in square feet, the average adult is between 1.5 and 2 meters tall) (M-2-M) (G-1-M)	11, *30 Convert measurements: 137, 141 Scale Map: 29	28, 39, 55, 84 Time: 137 Weight: 136 Activity 1, 3, 4, 7 Density: Activity 13 Range / Velocity: Activity 14
4	22. Estimate perimeter and area of any 2-dimensional figure (regular and irregular) using standard units (M-2-M)	10, 75 Circle: 125	28, 39, 55, 56, *63 Weight: 136 Activity 2, 3, 4
4	23. Identify and select appropriate units to measure area (M-3-M)	75	28, 39, 55, 56 Activity 2, 3, 4
Geometry			
4	24. Use mathematical terms to describe the basic properties of 3-dimensional objects (edges, vertices, faces, base, etc.) (G-2-M)	15, 59, 100, 139 Two-dimension: 14, 21	51, 57, *58, 64, 118 Two-dimension: 45, 53 Activity 2, 5, 7
4	25. Relate polyhedra to their 2-dimensional shapes by drawing or sketching their faces (G-2-M) (G-4-M)	*15, 100, 139	51, 57, 64, 118, *148 Activity 1, 2, 5
4	26. Apply concepts, properties, and relationships of points, lines, line segments, rays, diagonals, circles, and right, acute, and obtuse angles and triangles in real-life situations, including estimating sizes of angles (G-2-M) (G-5-M) (G-1-M)	11, 14, 25, 33, 60, 80, 88, 125 Symmetry / Congruent: 23	23, 29, 36, 71 Activity 1, 2
4	27. Make and test predictions regarding tessellations with geometric shapes (G-3-M)		*14, *53, *108, *116, *129 Activity 8
4	28. Use a rectangular grid and ordered pairs to plot simple shapes and find horizontal and vertical lengths and area (G-6-M)	*32, 36, 68, 76, *109, 145 Slope / intercept: 115	Activity 3
Data Analysis, Probability, and Discrete Math			
2	29. Collect, organize, label, display, and interpret data in frequency tables, stem-and-leaf plots, and scatter plots and discuss patterns in the data verbally and in writing (D-1-M) (D-2-M) (A-3-M)	2, 8, 15, 34, 40, 69, 70, 100, 150 Deductive reasoning: 7	*1, 4, *6, 9, 11, 19, 60, 65, 67, 75, 81, 91, 95, 106 Deductive reasoning: 120, 145 Activity 9, 11



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2	30. Describe and analyze trends and patterns observed in graphic displays (D-2-M)	2, 4, 8, 34, 40, 69, 70, 100, 150	*1, 9, 11, 19, 60, 65, 67, 75, 81, 91, 154 Activity 9, 11
3,5	31. Demonstrate an understanding of precision, accuracy, and error in measurement (D-2-M) (M-2-M)	2, *13, *34, *40, 75	*54 Activity 9
2	32. Calculate and discuss mean, median, mode, and range of a set of discrete data to solve real-life problems (D-2-M)	20, 65 Average: 55, 120	Average: 47, 138 Activity *9, 10
2	33. Create and use Venn diagrams with two overlapping categories to solve counting logic problems (D-3-M)	45, 56	33, 43, 52
6	34. Use lists, tree diagrams, and tables to determine the possible combinations from two disjoint sets when choosing one item from each set (D-4-M)	8, 69, 150	*1, 11, 19, 40, 81, 97, 146, 149
6	35. Illustrate and apply the concept of complementary events (D-5-M)	8, 34, 69, 150	Activity 9, 11
6	36. Apply the meaning of <i>equally likely</i> and <i>equally probable</i> to real-life situations (D-5-M) (D-6-M)	34, 99	19, 138
Patterns, Relations, and Functions			
2,8	37. Describe, complete, and apply a pattern of differences found in an input-output table (P-1-M) (P-2-M) (P-3-M)	8, 40, 54, 69, 72, 84, 149	*6, 34, 66, 80, 93, 94, *100, 103, 112, 114, 123, 125, 127, 128, 135, 146, 153
1,8	38. Describe patterns in sequences of arithmetic and geometric growth and now-next relationships (i.e., growth patterns where the next term is dependent on the present term) with numbers and figures (P-3-M) (A-4-M)	*2, 4, 8, 21, 33, 40, 54, 69, 73, 74, 84, 149	6, 13, 15, 24, 26, 30, 32, 34, 58, 61, 62, 64, 66, 70, 75, 80, 81, 93, 94, 104, 107, 109, 119, 121, 122, 131, 140, 141, 151 Order: 105, 134

* Gives opportunity to teach specific Standard