



Louisiana Math Standards /Excel Math Correlation
4th Grade

| Unit # | LOUISIANA EXPECTATIONS FOR MATH | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|------------------------------------|--|---|--|
| Number and Number Relations | | | |
| 2 | 1. Read and write place value in word, standard, and expanded form through 1,000,000 (N-1-E) | 1, 2, 7, 12, 22, 27, 28, 36, 42, 43, 50, 52, 53, 55, 82, 83, 85, 102, 126, 129, 131 | |
| 1, 2 | 2. Read, write, compare, and order whole numbers using place value concepts, standard notation, and models through 1,000,000 (N-1-E) (N-3-E) (A-1-E) | 1, 3, 6, 7, 8, 13, 22, 23, 46, 48, 50, 51, 55, 69, 91, 93, 102, 103, 106, 126, 151 Positive / Negative: 133 | 3, 7, 8, 11, 13, 17, 21, 25, 63, 68, 76, 87, 90, 92, 102, 105, 106, 113, 117, 122, 128, 132, 142, 143 Activity 12 |
| 3 | 3. Illustrate with manipulatives when a number is divisible by 2, 3, 5, or 10 (N-1-E) | 21, 24, 27, 28, 33, 42, 43, 49, 51, 52, 53, 61, 73, 82, 83, 87, *91, 93, 107, 115, 148 | 115, 117, 121 |
| 1, 3 4, 8 | 4. Know all basic facts for multiplication and division through 12×12 and $144 \div 12$, and recognize factors of composite numbers less than 50 (N-1-E) (N-6-E) (N-7-E) | 12, 13, 14, 17, 18, 19, 21, 22, 23, 24, 26, 29, 31, 34, 36, 46, 47, 48, 49, 51, 52, 53, 54, 56, 59, 61, 62, 64, 66, 71, 73, 74, 76, 77, 78, 79, 80, 84, 87, 89, 91, 92, 93, 94, 96, 98, 101, 102, 103, 108, 112, 114, 117, 122, 124, 129, 131, 132, 136, 137, 138, 141, 142 Prime: 94, 135 Add / Sub: 2, 3, 6, 7, 8, 11, 13, 14 | 8, 14, 22, 29, 45, 52, 56, 69, 75, 80, 89, 93, 95, 99, 104, 109, 115, 117, 118, 129, 132, 142, 148, 155 |
| 5, 7 | 5. Read, write, and relate decimals through hundredths and connect them with corresponding decimal fractions (N-1-E) | 9, 11, 26, 61, 82, 83, 85, 100, 104, 105, 115, 117, 118, *127, *128, 131, 137, 145, 148 Add / Sub: 11, 86 Division: 109, 115, 139, 148 Multiplication: 141, 142 | Activity 6 |
| 5, 7 8 | 6. Model, read, write, compare, order, and represent fractions with denominators through twelfths using region and set models (N-1-E) (A-1-E) | 15, 16, 17, 54, 75, 79, 88, 95, 99, 110, 112, 114, 117, 118, 125, 127, 128, 137, 145, 148 Add / Sub: 67, 76, 80 Multiplication: 153, 154 | 59 |
| 2, 5 7 | 7. Give decimal equivalents of halves, fourths, and tenths (N-2-E) (N-1-E) | 100, 118, 137, 148 | |
| 2, 7 | 8. Use common equivalent reference points for percents (i.e., $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, and 1 whole) (N-2-E) | 127, 128, 136, 137, 143, 145 | |
| 5, 7 | 9. Estimate fractional amounts through twelfths, using pictures, models, and diagrams (N-2-E) | *75, 85, 136, 137 | 27, 41, 55 |



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| 3, 4 5, 8 | 10. Solve multiplication and division number sentences including interpreting remainders (N-4-E) (A-3-E) | 16, 21, 22, 33, 54, 72, 74, 87, 91, 92, 95, 109, 115, 120, 134, 139, 148, 149 | 14, 22, 27, 29, 31, 41, 45, 55, 56, 59, 67, 69, 71, 75, 79, 80, 86, 89, 93, 96, 99, 104, 109, 115, 117, 118, 121, 125, 129, 148, 153, 155 Activity 6, 8, 11 |
| 4, 5 | 11. Multiply 3-digit by 1-digit numbers, 2-digit by 2-digit numbers, and divide 3-digit numbers by 1-digit numbers, with and without remainders (N-6-E) (N-7-E) | 12, 28, 32, 42, 43, 47, 52, 53, 59, 61, 62, 82, 83, 84, 89, 107, 109, 115, 116, 124, 138, 141, 142, 146, 151 | 96, 153 |
| 1, 2 | 12. Count money, determine change, and solve simple word problems involving money amounts using decimal notation (N-6-E) (N-9-E) (M-1-E) (M-5-E) | 9, 11, 12, 16, 26, 55, 61, 104, 109, 139 | 16, 20, 28, 30, 47, 83, 91, 101, 103, 111, 114, 146, 153 Activity 6 |
| 1, 2 3, 4 5, 8 | 13. Determine when and how to estimate, and when and how to use mental math, calculators, or paper/pencil strategies to solve multiplication and division problems (N-8-E) | 24, 26, 35, 45, 47, 54, 55, 59, 69, 74, 84, 86, 87, 89, 90, 92, 104, 107, 109, 115, 123, 124, 129, 134, 138, 139, 151 | 3, 5, 6, 7, 8, 9, 10, 11, 14, 15, 16, 17, 18, 19, 21, 22, 25, 27, 28, 29, 30, 31, 33, 39, 41, 43, 45, 47, 48, 51, 52, 55, 56, 59, 67, 69, 71, 73, 75, 76, 79, 80, 83, 86, 87, 89, 91, 92, 93, 95, 96, 99, 101, 103, 104, 105, 106, 108, 109, 111, 114, 115, 116, 117, 118, 119, 125, 126, 127, 128, 129, 130, 132, 133, 136, 138, 146, 147, 148, 153, 155 Activity 6, 8, 11 |
| 1, 2 3, 4 6, 8 | 14. Solve real-life problems, including those in which some information is not given (N-9-E) | 1, 4, 9, 10, 15, 17, 20, 26, 31, 33, 46, 51, 54, 56, 72, 77, 90, 92, 104, 109, 111, 123, 124, 129, 131, 139, 143 | 1, 2, 5, 10, 14, 18, 22, 27, 28, 29, 33, 40, 41, 43, 47, 48, 51, 55, 59, 64, 69, 71, 73, 76, 77, 79, 83, 84, 86, 87, 91, 95, 97, 98, 101, 108, 111, 112, 114, 115, 116, 118, 120, 125, 126, 127, 130, 133, 146, 147, 148, 153, 155 Activity 6, 8, 11 |
| Algebra | | | |
| 2, 3 4, 5 6 | 15. Write number sentences or formulas containing a variable to represent real-life problems (A-1-E) | *1, 14, *20, *31, *33, *34, 41, *54, 56, 68, 72, *77, 87, 90, 92, 95, 104, 109, 111, *120, *124, 134, 147, 152, 155 | 5, 10, 14, 16, 18, 20, 22, 27, 28, 29, 30, 33, 41, 43, 47, 48, 55, 59, 71, 76, 77, 79, 83, 86, 101, 103, 118, 119, 125, 130, 136, 137, 138, 147, 148, 155 Activity 6, 8, 11 Not Real Life: 9, 15, 19, 21, 25, 27, 31, 39, 45, 52, 56, 69, 75, 80, 89, 90, 91, 93, 95, 99, 104, 109 |
| 4, 5 6 | 16. Write a related story problem for a given algebraic sentence (A-1-E) | *14, *26, *34, 35, *56, *72, *87, *134, *152 | 20, 28, 30, *76, *95 Activity 6, 8 |



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| 4 | 17. Use manipulatives to represent the distributive property of multiplication over addition to explain multiplying numbers (A-1-E) (A-2-E) | *12, *24, *34, *36, *49, 108 Commutative: 72 Associative: 108 | |
| 5, 6 8 | 18. Identify and create true/false and open/closed number sentences (A-2-E) | 9, 14, *22, 31, 34, 35, 54, 74, 90, 99, 100, 125, 134, 139, 155 | 3, 5, 7, 8, 10, 11, 16, 18, 20, 21, 25, 27, 28, 30, 43, 45, 47, 48, 52, 56, 59, 67, 69, 75, 76, 79, 80, 87, 89, 90, 95, 96, 101, 103, 105, 111, 113, 115, 117, 121, 122, 126, 130, 132, 136, 138, 142, 146, 147 Activity 6, 11 |
| 3, 5 6, 8 | 19. Solve one-step equations with whole number solutions (A-2-E) (N-4-E) | 1, 14, 16, 20, 21, 31, 35, 41, 54, 56, 68, 74, 86, 87, 90, 91, 92, 93, 95, 109, 111, 115, 120, 152, 155 Parentheses: 34, 108 | 3, 5, 6, 7, 8, 9, 10, 14, 15, 16, 18, 19, 20, 21, 22, 25, 26, 27, 28, 29, 30, 31, 33, 39, 41, 43, 45, 47, 48, 52, 55, 56, 59, 67, 69, 75, 76, 77, 79, 80, 83, 86, 87, 89, 90, 91, 92, 93, 95, 96, 99, 101, 102, 103, 104, 109, 111, 114, 115, 116, 117, 118, 119, 129, 130, 133, 136, 138, 147, 153, 155 Activity 6, 8, 11 |
| Measurement | | | |
| 6 | 20. Measure length to the nearest quarter-inch and mm (M-2-E) (M-1-E) | 30, 37, 64, 121 | |
| 6 | 21. Describe the concept of volume, and measure volume using cubic in. and cubic cm and capacity using fl. oz. and ml (M-2-E) (M-3-E) | 29, 95, 105 | 23, 48, 76, 87, 95, 133, 134, 139, 144, 149, 154 |
| 6 | 22. Select and use the appropriate standard units of measure, abbreviations, and tools to measure length and perimeter (i.e., in., cm, ft., yd., mile, m, km), area (i.e., square inch, square foot, square centimeter), capacity (i.e., fl. oz., cup, pt., qt., gal., l, ml), weight/mass (i.e., oz., lb., g, kg, ton), and volume (i.e., cubic cm, cubic in.) (M-2-E) (M-1-E) | Length: 29, 30, 63, 64 Perimeter: 64, 96, 120 Area: 68, 96, 120, 147, 149, 155 Capacity / Weight / Mass: 29, 123 Volume: 95, 105 Temperature: 133 | 23, 48, 117, 118, 125, 135, 137, 150 Activity 7, 10 |
| 2 | 23. Set up, solve, and interpret elapsed time problems (M-2-E) (M-5-E) | 18, 19, 57, 66, 90, 111, 124 | 10, 18, 43, 70, 148 |
| 6 | 24. Recognize the attributes to be measured in a real-life situation (M-2-E) (M-5-E) | 29, 92, 121 | 48, 76, 87, 117, 118, 125, 133, 135, 137 Activity 10 |

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| 6 | 25. Use estimates and measurements to calculate perimeter and area of rectangular objects (including squares) in U.S. (including square feet) and metric units (M-3-E) | 68 | 118, 125, 135, 137, 150 Activity 7, 10 |
| 6 | 26. Estimate the area of an irregular shape drawn on a unit grid (M-3-E) | Estimate of Standard: 29 | Activity 10 |
| 6 | 27. Use unit conversions within the same system to solve real-life problems (e.g., 60 sec. = 1 min., 12 objects = 1 dozen, 12 in. = 1 ft., 100 cm = 1 m, 1 pt. = 2 cups) (M-4-E) (N-2-E) (M-5-E) | 37, 63, 73, 90, 121, 124 | Activity *7 |
| Geometry | | | |
| 6 | 28. Identify the top, bottom, or side view of a given 3-dimensional object (G-1-E) (G-3-E) | 40, 95, 149 | 140, 141 Activity 9 |
| 6 | 29. Identify, describe the properties of, and draw circles and polygons (triangle, quadrilateral, parallelogram, trapezoid, rectangle, square, rhombus, pentagon, hexagon, octagon, and decagon) (G-2-E) | 15, 38, 39, 44, 58, 71, 96, 98, 144, 147, 155 | 4, 24, 32, 36, 44, 53, 58, 65, 66, 78, 82, 94, 100, 107, 110, 119, 123, 131, 150 Activity 3, 4, 9 |
| 6 | 30. Make and test predictions regarding transformations (i.e., slides, flips, and turns) of plane geometric shapes (G-3-E) | 60 Symmetry: 30 | 4, 32, 36, 44, 53, 58, *60, 65, 66, 78, 82, *94, *100, *107 Activity 3 |
| 6 | 31. Identify, manipulate, and predict the results of rotations of 90, 180, 270, and 360 degrees on a given figure (G-3-E) | 70, 132 | *60 Graphing Activity 6 |
| 6 | 32. Draw, identify, and classify angles that are acute, right, and obtuse (G-5-E) (G-1-E) | 70, 78, 132 | |
| 6, 8 | 33. Specify locations of points in the first quadrant of coordinate systems and describe paths on maps (G-6-E) | 65, 97, 120, 130, 140 | Activity 5 |
| Data Analysis, Probability, and Discrete Math | | | |
| 1 | 34. Summarize information and relationships revealed by patterns or trends in a graph, and use the information to make predictions (D-1-E) | 4, 5, 25, 44, 56, 80, 119 | 7, 10, 11, 17, 18, 24, 43, 86, 97, 112, 145, 151 Graphing Activity: 1, 2, 3, 4, 5, 6 |
| 1, 7 8 | 35. Find and interpret the meaning of mean, mode, and median of a small set of numbers (using concrete objects) when the answer is a whole number (D-1-E) | 122, 123, 150 | *13 Graphing Activity *2, *3, *6 |



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|---|---|--|--|
| 1, 7 | 36. Analyze, describe, interpret, and construct various types of charts and graphs using appropriate titles, axis labels, scales, and legends (D-2-E) (D-1-E) | *5, 20, 25, 39, 40, 56, 80, 119, 121 | 86, 97, 112, 145, 151 Graphing Activity: 1, 2, 3, 4, 5, 6 |
| 1, 7 | 37. Determine which type of graph best represents a given set of discrete data (D-2-E) (D-1-E) | *20, *44, 80, *119 | 86, 97, 112, 145, 151 Graphing Activity 1, 2, 3, 6 |
| 6, 8 | 38. Solve problems involving simple deductive reasoning (D-3-E) | 4, 10, 41 | 1, 2, 5, 22, 23, 27, 29, 33, 34, 37, 38, 40, 42, 45, 46, 47, 49, 50, 51, 52, 54, 55, 57, 61, 64, 70, 71, 72, 74, 79, 81, 84, 86, 88, 91, 97, 98, 111, 112, 115, 120, 121, 133, 134, 139, 140, 141, 144, 145, 149, 151, 154, 155 Activity 2, 6 |
| 1, 8 | 39. Use lists, tables, and tree diagrams to generate and record all possible combinations for 2 sets of 3 or fewer objects (e.g., combinations of pants and shirts, days and games) and for given experiments (D-3-E) (D-4-E) | 5, 51, 77 | 6, 7, 11, 17, 24, 27, 85 |
| 1, 2 6, 8 | 40. Determine the total number of possible outcomes for a given experiment using lists, tables, and tree diagrams (e.g., spinning a spinner, tossing 2 coins) (D-4-E) (D-5-E) | 5 | 85 |
| 1, 7 | 41. Apply appropriate probabilistic reasoning in real-life contexts using games and other activities (e.g., examining fair and unfair situations) (D-5-E) (D-6-E) | 4, 5 | *85 Graphing Activity 1, 2 |
| Patterns, Relations, and Functions | | | |
| 1, 3 4 | 42. Find and describe patterns resulting from operations involving even and odd numbers (such as even + even = even) (P-1-E) | *6, 17, 61, 102 | 16, 90, 121 Order: 1, 2, 34, 37, 42, 46, 50, 54, 57, 61, 72, 74, 81, 88 |
| 1, 8 | 43. Identify missing elements in a number pattern (P-1-E) | 6, 8, 23, 25, 48, 56, 58, 101, 103, 105, 113, 117, 126, 151, 152 | 8, 12, 16, 20, 35, 48, 62, 77, 116, 124, 130, 136, 138 Geometric: 60 |
| 1, 8 | 44. Represent the relationship in an input-output situation using a simple equation, graph, table, or word description (P-2-E) | 4, 20, 25, 51, 56, *91, 126, 151, 152 | 7, 11, 12, 16, 17, 20, 86, 97, 124, 152 |

* Gives opportunity to teach specific expectation