



## Idaho 4<sup>th</sup> Grade Standards / *Excel Math* Correlation

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
<b>STANDARD 1</b>		
<b>NUMBER and OPERATION</b>		
<b>Goal 1.1: Understand and use numbers.</b>		
Objective 1: 4.M.1.1.1 Read, write, compare, and order whole numbers to 100,000.	1, 3, 7, 8, 17, 22, 46, 50, 61, 102, 126, 133, 135 (Prime numbers)	63, 68, 90, 92, 102, 105, 113, 122, 153
Objective 2: 4.M.1.1.2 Identify and apply place value in whole numbers	1, 2, 3, 32, 47, 50, 52, 53, 62, 69, 102, 126 Decimals: 85, 131	
Objective 3: 4.M.1.1.3 Count the value of a collection of bills and coins up to \$100.00.	9, 11, *12, 16, 26	*28, 30, 47, 146
Objective 4 4.M.1.1.4 Read, write, compare, and order commonly used fractions with pictorial representations.	15, 16, 17, 54, 75, 79, 88, 99, 110, 112, 114, 118, 125, 136, 137, 143 Fractions / Decimals: 85, 100, 148 Fractions / Percents: 127, 128	
Objective 5 4.M.1.1.5 Use decimal numbers with money.	11, 12, 16, 26, 55, 61, 107, 116, 109, 139	30, 83, 91, 101, 103, 111, 146
Objective 6 4.M.1.1.6 Select strategies appropriate for solving a problem.	1, 4, 6, 9, 10, 18, 19, 21, 23, 26, 31, 33, 36, 41, 48, 56, 69, 72, 73, 77, 90, 92, 104, 109, 111, 121, 122, 123, 129, 139, 143 Fact Families: 21, 24, 49, 87 Prime numbers: 94, 135 Factors: 93, 106 Multiples: 51, 89, 91	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 31, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, 50, 51, 52, 54, 55, 56, 57, 59, 61, 62, 63, 64, 67, 68, 70, 71, 72, 73, 74, 75, 76, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 93, 95, 96, 97, 98, 99, 101, 102, 103, 104, 105, 106, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 120, 121, 122, 126, 127, 130, 132, 133, 134, 136, 138, 139, 142, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 155 Activity 1, 2, 6, 8, 11
Objective 7 4.M.1.1.7 Use appropriate vocabulary.	1, 8, 9, 15, 16, , 46, 81, 69, 75, 88, 107, 109, 126, 133, 136, 137, 139	28, 63, 90, 92, 102, 105, 113, 122



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<b>Goal 1.2: Perform computations accurately.</b>		
Objective 1: 4.M.1.2.1 Recall multiplication facts through 10 x 10.	12, 13, 14, 17, 18, 19, 21, 22, 23, 24, 31, 36, 46, 47, 48, 49, 51, 52, 53, 56, 59, 61, 62, 64, 71, 73, 76, 77, 78, 81, 84, 87, 91, 93, 98, 102, 103, 129, 131, 132, 137, 141	16
Objective 2: 4.M.1.2.2 Add and subtract whole numbers.	1, 2, 3, 6, 7, 8, 9, 11, 13, 14, 16, 22, 24, 26, 31, 35, 36, 41, 45, 49, 65, 69, 72, 74, 108, 111, 121, 122, 126, 129, 134, 152  Decimals: 86, 104  Fact Families: 13	3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 25, 26, 27, 28, 29, 31, 33, 35, 38, 39, 41, 43, 45, 47, 48, 52, 56, 59, 62, 67, 69, 72, 75, 80, 87, 89, 90, 91, 92, 93, 95, 99, 102, 105, 106, 113, 116, 122, 126, 130, 132, 136, 138, 142
Objective 3: 4.M.1.2.3 Multiply up to two-digit by two-digit whole numbers and divide whole numbers by one-digit divisors.	12, 13, 14, 16, 17, 19, 21, 22, 23, 24, 26, 27, 28, 29, 31, 32, 33, 34, 36, 42, 43, 46, 47, 48, 49, 51, 52, 53, 54, 56, 59, 61, 62, 64, 66, 70, 71, 73, 74, 76, 77, 78, 79, 81, 82, 83, 84, 87, 89, 91, 92, 93, 94, 96, 98, 101, 102, 103, 108, 112, 114, 115, 116, 117, 122, 124, 129, 131, 132, 136, 137, 138, 139, 141, 142, 146, 151, 153, 154	14, 15, 16, 19, 27, 29, 31, 39, 41, 45, 55, 56, 59, 67, 69, 70, 75, 80, 86, 89, 93, 96, 99, 104, 109, 117, 118, 121, 125, 132, 142, 153, 155
Objective 4 4.M.1.2.4 Add and subtract fractions with like denominators that do not require simplification.	67, 76, 81  Multiply fractions: 153, 154	
Objective 5 4.M.1.2.5 Add and subtract decimals using money.	11, 12, 26, 86, 104  Multiply / Divide Decimals: 12, 61, 107, 109, 110, 139, 141, 142	20, 28, 30, 83, 91, 101, 103, 111, 114, 146
Objective 6 4.M.1.2.6 Select and use an appropriate method of computation from mental math, paper and pencil, calculator, or a combination of the three.	1, 2, 9, 12, 17, 21, 22, 23, 26, 27, 28, 31, 32, 33, 36, 42, 43, 46, 48, 49, 52, 53, 54, 56, 59, 61, 62, 63, 68, 72, 73, 74, 81, 82, 83, 84, 86, 87, 89, 90, 126, 129, 131	3, 5, 7, 8, 10, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 25, 26, 27, 28, 29, 33, 35, 38, 41, 43, 47, 48, 55, 59, 62, 70, 72, 83, 86, 87, 91, 92, 95, 96, 99, 101, 103, 105, 106, 111, 113, 115, 116, 117, 118, 121, 122, 126, 130, 132, 134, 136, 138, 142, 147, 148, 153, 155



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Objective 7 4.M.1.2.7 Select and use appropriate operations to solve word problems and show or explain work.	1, 4, 6, 9, 10, 18, 19, 21, 23, 26, 31, 33, 36, 41, 48, 56, 69, 72, 73, 77, 90, 92, 104, 109, 111, 121, 122, 123, 129, 139, 143	1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 25, 26, 27, 28, 29, 31, 33, 34, 35, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 48, 50, 51, 52, 54, 55, 56, 57, 59, 61, 62, 63, 64, 67, 68, 70, 71, 72, 73, 74, 75, 76, 79, 80, 81, 83, 84, 86, 87, 88, 89, 90, 91, 92, 93, 95, 97, 98, 99, 101, 102, 103, 104, 105, 106, 108, 109, 111, 112, 113, 114, 115, 116, 117, 118, 120, 121, 122, 126, 127, 130, 132, 133, 134, 136, 138, 139, 142, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 155  Activity 1, 2, 6, 8, 11
Objective 8 4.M.1.2.8 Use appropriate vocabulary.	1, 2, 3, 6, 9, 12, 17, 21, 24, 27, 28, 31, 32, 33, 36, 42, 43, 46, 48, 49, 52, 53, 54, 56, 59, 61, 67, 72, 73, 79, 81, 87, 90, 126, 131	3, 5, 7, 8, 11, 12, 13, 14, 16, 17, 18, 20, 21, 22, 27, 28, 29, 33, 38, 41, 59, 70, 72, 86, 87, 91, 92, 95, 96, 99, 101, 103, 105, 111, 115, 116, 117, 118, 121, 122, 126, 130, 132, 138, 147, 153
<b>Goal 1.3: Estimate and judge reasonableness of results.</b>		
Objective 1: 4.M.1.3.1 Estimate to predict computation results.	22, 26, 45, 55, 69, 104, 129, 131	3, 5, 6, 7, 8, 9, 11, 13, 14, 15, 17, 19, 22, 23, 26, 27, 29, 31, 39, 41, 45, 52, 55, 56, 67, 71, 75, 80, 87, 89, 90, 91, 92, 93, 95, 96, 99, 102, 104, 105, 109, 113, 116, 122, 132, 133, 134
Objective 2: 4.M.1.3.2 Use estimation to evaluate the reasonableness of an answer.	22, 26, 45, 55, 69, 104, 129, 131	3, 5, 6, 7, 8, 9, 11, 13, 14, 15, 17, 19, 22, 23, 26, 27, 29, 31, 39, 41, 45, 52, 55, 56, 67, 71, 75, 80, 87, 89, 90, 91, 92, 93, 95, 96, 99, 102, 104, 105, 109, 113, 116, 122, 132, 133, 134
Objective 3: 4.M.1.3.3 Investigate the use of a four-function calculator to solve complex grade-level problems.	23, 28, 42, 43, 48, 52, 53	3, 5, 6, 7, 8, 10, 11, 12, 13, 17, 18, 21, 43, 67, 90, 91, 96, 105, 118, 121  Activity 11
Objective 4 4.M.1.3.4 Use appropriate vocabulary.	22, 26, 45, 55, 69, 104, 129, 131	3, 5, 6, 7, 8, 9, 11, 13, 14, 15, 17, 19, 22, 23, 26, 27, 29, 31, 39, 41, 45, 52, 55, 56, 67, 71, 75, 80, 87, 89, 90, 91, 92, 93, 95, 96, 99, 102, 104, 105, 109, 113, 116, 122, 132, 133, 134

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<h2>STANDARD 2</h2> <h3>CONCEPTS and PRINCIPLES of MEASUREMENT</h3>
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Goal 2.1: Understand and use U.S. customary and metric measurements.		
Objective 1: 4.M.2.1.1 Select and use appropriate units and tools to make the formal measurements of length, temperature, and weight in both systems.	29, 30, 37, 70, 121	23, 49, 76, 118, 125, 134
Objective 2: 4.M.2.1.2 Estimate length, time, weight, and temperature in real-world problems using standard units.	29, 37, 63, 64, 121	23, 49, 76, 118, 125, 134, 135, 137, 139, 144, 149
Objective 3: 4.M.2.1.3 Tell time to the nearest minute using digital and analog clocks.	18	
Objective 4 4.M.2.1.4 Solve real-world problems related to elapsed time.	18, 19, 57, 92, 111, 124	1, 10, 148
Objective 5 4.M.2.1.5 Convert units of length and time within the U. S. Customary system.	*19, 29, 30, 37, 63, *64, 73, 87, 92, 123	118, 125
Objective 6 4.M.2.1.6 State that there are 365 days in a year and 52 weeks in a year.	*19, 124	
Objective 7 4.M.2.1.7 Recall length and volume (capacity) equivalences involving inches, feet, yards, cups, pints, quarts, and gallons in the U.S. Customary system.	*29, 37, 63, 73, 87, 92, 105, 121, 123	
Objective 8 4.M.2.1.8 Use appropriate vocabulary.	18, 19, 29, 30, 37, 57, 63, 70, 73, 87, 92, 105, 111, 121, 123	23, 49, 76, 125, 135, 137, 148

\*Gives opportunity to teach specific State Standard

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<b>STANDARD 3</b>		
<b>CONCEPTS and LANGUAGE of ALGEBRA and FUNCTIONS</b>		
<b>Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.</b>		
Objective 1: 4.M.3.1.1 Write a division problem using a bracket (÷) and/or the division symbol (÷).	21, *72, 92, 109, 110, 115, 134, 148	14, 39, 69, 75, 89, 99, 104, 109, 117, 121, 153 Activity 8
Objective 2: 4.M.3.1.2 Write a number sentence using simple geometric shapes or letters of the alphabet as symbols to represent an unknown number.	14, 34, 87, 134, 152	9, 15, 19, 20, 28, 39, 45, 52, 56, 67, 69, 75, 80, 89, 93, 96, 99, 104, 109, 132, 142, 143
Objective 3: 4.M.3.1.3 Show the relationship between multiplication and division using fact families.	21, 24, 49, 73, 87 Inverse: 27, 28, 42, 43, 52, 53, 59, 61, 82, 83, 89, 109, 115, 138, 151	
Objective 4 4.M.3.1.4 Read and use symbols of “<,” “>,” and “=” to express relationships with numbers through 1,000,000.	8, 24, 34, 35, 72, 74, 87, 92, 100, 108, 109, 115, 133, 134, 137, 148, 152, 153, 154, 155	3, 6, 10, 13, 17, 18, 21, 25, 43, 48, 59, 67, 87, 89, 96, 114, 117, 121, 126, 128, 129, 130, 132, 147, 153, 155
<b>Goal 3.2 Evaluate algebraic expressions.</b>		
Objective 1: 4.M.3.2.1 Use the identity and zero properties of multiplication.	32, 47, *87, 90, 146 Commutative: 72 Associative: 108	67
<b>Goal 3.3 Solve algebraic equations and inequalities.</b>		
Objective 1: 4.M.3.3.1 Solve missing factor equations.	14, 34, 87, 134, 152 Addends: 14, *35	19, 31, 45, 56, 80, 89, 93, 99, 104, 109 Addends: 9, 39, 52, 75
<b>Goal 3.4: Understand the concept of functions.</b>		
Objective 1: 4.M.3.4.1 Identify the rule (function) for a pattern using whole numbers and addition and then extend the pattern.	6, 8, 23, 25, 48, 56, 58, 101, 103, 113, 117, 126, 152	8, 12, 16, 17, 21, 35, 48, 60, 62, 63, 68, 77, 79, 106, 116, 124, 130, 136, 138 Order: 1, 2, 54, 61, 72
Objective 2: 4.M.3.4.2 Use appropriate vocabulary.	6, 8, 23, 25, 48, 56, 58, 101, 103, 113, 117, 126, 152	8, 12, 16, 21, 35, 60, 62, 77, 106, 116, 124, 130, 136, 138. Order: 1, 2, 54, 61, 72

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<h2>STANDARD 4</h2> <h3>CONCEPTS and PRINCIPLES of GEOMETRY</h3>
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<p><b>Goal 4.1: Apply concepts of size, shape, and spatial relationships.</b></p>
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<p>Objective 1: 4.M.4.1.1 Identify, compare, and analyze attributes of two- and three-dimensional shapes, including parallel, intersecting, and perpendicular lines, and develop vocabulary to describe the attributes.</p>	<p>15, 38, 39, 40, 44, 58, 60, 64, 71, 95, 98, 105, 120, 144, 147</p>	<p>4, 24, 32, 36, 44, 53, 58, 65, 66, 78, 82, 94, 100, 107, 110, 119, 123, 125, 131, 150 Activity 3, 4, 9, 10</p>
<p>Objective 2: 4.M.4.1.2 Predict the results of sliding and flipping two-dimensional shapes.</p>	<p>60</p>	<p>36, 53, 141 Transformations: 4, 44, 58, 66, 78, 82, 100, 107, 123, 131 Activity 3</p>
<p>Objective 3: 4.M.4.1.3 Identify multiple lines of symmetry in two-dimensional shapes.</p>	<p>30</p>	
<p>Objective 4 4.M.4.1.4 Discuss perimeters of polygons, and areas and perimeters of rectangles and squares, using concrete objects.</p>	<p>64, 68, (71 circles), 96, 120, 149, 155 Volume: 105 Cubic units: 95</p>	<p>118, 125, 135, 137, 150 Area of triangle: 150 Activity 3, 7, 10</p>
<p>Objective 5 4.M.4.1.5 Use appropriate vocabulary.</p>	<p>15, 30, 38, 39, 44, 58, 60, 68, 71, 95, 144, 147, 149 Parallel, perpendicular, intersecting lines: 38, 39 Coordinates: 97, 120, 130, 140</p>	<p>24, 94, 110, 131, 150 Activity 3</p>

<p><b>Goal 4.3: Apply graphing in two dimensions.</b></p>
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<p>Objective 1: 4.M.4.3.1 Use ordered pairs to identify the position of a point in the first quadrant on a coordinate grid.</p>	<p>65, 97, 120, 130, 140</p>	<p>Activity 5</p>
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<b>STANDARD 5</b>		
<b>DATA ANALYSIS, PROBABILITY, and STATISTICS</b>		
<b>Goal 5.1: Understand data analysis.</b>		
Objective 1: 4.M.5.1.1 Read and interpret simple tables, charts, bar graphs, and line graphs.	20, 25, 56, 80, 119, 152 Intersection of sets: 44	10, 18, 97, 145, 151 Graph Activity 1, 2, 3, 4, 5, 6
Objective 2: 4.M.5.1.2 Use appropriate vocabulary.	20, 25, 56, 80, 119, 152 Intersection of sets: 44	10, 18, 97, 145, 151 Graph Activity 1, 2, 3, 4, 5, 6
<b>Goal 5.2: Collect, organize, and display data.</b>		
Objective 1: 4.M.5.2.1 Collect, organize, and display data in tables and charts to answer a question.	5, 44	1, 2, 10, 18, 86, 97, 112, *145, *151 Graph Activity 1, 2, 3, 4, 5, 6
Objective 2: 4.M.5.2.2 Display data in a bar graph using appropriate notation such as a title, axes labels, and reasonable scales.	5, 44	1, 2, 10, 18, 86, 97, 112, *145, *151 Graph Activity 1, 2, 3, 4, 5, 6
<b>Goal 5.3: Apply simple statistical measurements.</b>		
Objective 1 4.M.5.3.1 Find the mode of a simple set of whole number data.	150 Averages: 122, 123 Range: 45	*145, *151 Range – Activity 12
<b>Goal 5.4: Understand basic concepts of probability.</b>		
Objective 1: 4.M.5.4.1 Predict the results of simple probability experiments using coins or spinners (e.g., 3 out of 6 choices).	5	Graph Activity: 1, 2, 3, 4 Possibilities: Activity 1, Stretch 85
<b>Goal 5.5: Make predictions or decisions based on data.</b>		
Objective 1: 4.M.5.5.1 Make predictions based on data.	5	Graph Activity: 1, 2, 3, 4 Possibilities: Activity 1, Stretch 85