



West Virginia / Excel Math Correlation
4th Grade

West Virginia Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
Standard 1: Number and Operations (MA.S.1)		
MA.4.1.1 Read, write, order, and compare numbers to the millions place.	1, 2, 7, 8, 11, 17, 22, 46, 50, 61, 93, 102, 126, 129, 135 Positive / Negative: 133, 140	8, 13, 21, 63, 68, 90, 92, 102, 105, 113, 122, 126, 132, 142 Activity 12
MA.4.1.2 Read, write, order, and compare decimals to thousandths with and without models and pictorial representations.	*11, 16, 26, *56, 85, 100, 115, 131, 137, 141, 142	
MA.4.1.3 Identify place value of each digit utilizing standard and expanded form through 1,000,000.	1, 2, 7, 22, 32, 36, 42, 43, 50, 52, 53, 82, 83, 126	
MA.4.1.4 Estimate to nearer 10,000 using rounding, benchmarks, and compatible numbers and identify over and under estimates to determine reasonableness of an answer.	45, 55, 69, 77, 104	
MA.4.1.5 Compare and order fractions with like and unlike denominators using pictorial representations.	*15, *54, 79, 88, 95, 114, 125, 145	
MA.4.1.6 Add and subtract fractions with like and unlike denominators using pictorial representations.	*16, *54, 67, 76, 81, 95 Multiplication: 153, 154	
MA.4.1.7 Recognize and model equivalent fractions using pictorial representations.	*15, *17, 75, 99, 110, 118, 125, 148	
MA.4.1.8 Model addition and subtraction of mixed numbers without and with regrouping.	81, 88, 112 Mixed Number comparisons: 95, 100, 105, 118, 137, 145, 148	
MA.4.1.9 Understand the relationship of fractions to decimals using concrete objects and pictorial representations.	85, 118, 137, 145, 148 Percents: 127, 128, 136, 143	
MA.4.1.10 Round decimals to the nearest whole, 10 th , or 100 th .	*100, 104, *105, 131	
MA.4.1.11 Add and subtract decimals to the 1000 th place.	*9, 11, 86, 104 Multiplication / Division: 61, 83, 107, 109, 115, 116, 141, 142	20, 28, 30, 91, 101, 103, 111, 114
MA.4.1.12 Apply the distributive property of multiplication over addition.	*12, *16, *24, *31, *36, *49, 108 Commutative: 72	



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MA.4.1.13 Memorize basic multiplication facts and corresponding division facts.	12, 13, 14, 16, 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, 76, 77, 81, 84, 87, 91, 93, 98, 102, 124, 129, 131, 132, 136, 137, 141, 142 Factors, Prime: 94, 106, 135	
MA.4.1.14 Multiply 2-and 3-digit numbers by 1- and 2-digit numbers.	12, 13, 27, 28, 32, 43, 47, 48, 49, 52, 53, 59, 61, 62, 63, 71, 78, 82, 83, 84, 87, 89, 91, 93, 102, 103, 107, 116, 129, 131, 132, 137, 138, 141, 142, 146, 151	96, 125, 132, 135, 142, 148, 155
MA.4.1.15 Divide 2-and 3-digit numbers by 1-and 2-digit numbers.	21, 24, 27, 28, 33, 42, 43, 49, 52, 53, 54, 59, 61, 70, 71, 74, 76, 77, 78, 79, 81, 82, 83, 84, 87, 89, 91, 92, 93, 96, 98, 101, 102, 103, 107, 108, 112, 114, 116, 117, 122, 123, 124, 129, 131, 132, 136, 137, 138, 141, 142, 149, 151, 153, 154	117, 121, 125, 148, 153
MA.4.1.16 Apply the order of operations in solving problems.	22, 27, 28, 32, 34, 43, 47	67, 129
MA.4.1.17 Solve grade level appropriate story problems using multiple strategies.	1, 9, 15, 17, 18, 20, 26, 31, 33, 41, 45, 46, 51, 54, 56, 69, 72, 74, 77, 90, 92, 96, 104, 109, 121, 122, 123, 129, 139, 143	1, 2, 5, 12, 13, 14, 18, 20, 22, 23, 26, 27, 29, 33, 34, 35, 38, 40, 41, 43, 46, 47, 48, 50, 51, 54, 55, 57, 59, 64, 70, 71, 72, 73, 74, 77, 79, 83, 84, 86, 91, 98, 101, 103, 108, 111, 112, 114, 115, 116, 117, 118, 120, 121, 125, 127, 130, 133, 134, 135, 136, 138, 139, 144, 145, 146, 147, 148, 149, 151, 152, 153, 154, 155 Activity 6, 8, 11
MA.4.1.18 Develop fluency in addition and subtraction of all whole numbers.	1, 2, 3, 6, 7, 8, 10, 11, 13, 14, 16, 22, 26, 36, 41, 45, 69, 72, 103, 126, 129	3, 6, 7, 8, 10, 11, 13, 17, 18, 20, 21, 25, 26, 43, 47, 48, 59, 76, 80, 87, 90, 91, 92, 95, 101, 102, 103, 105, 106, 111, 113, 116, 122, 125, 126, 129, 130, 132, 133, 136, 138, 139, 142, 143, 144, 147, 149, 154, 155
Standard 2: Algebra (MA.S.2)		
MA.4.2.1 Solve problems involving patterns.	6, 17, 23, 25, 48, 56, 58, 101, 103, 113, 117, 126, 152	7, 11, 12, 16, 17, 25, 28, 35, 48, 60, 62, 77, 92, 106, 115, 124, 128, 130, 136, 138, 143 Order: 2, 37, 42, 46, 50, 54, 57, 61, 72, 74, 81, 88, 97, 112
MA.4.2.2 Use input/output model with grade appropriate functions.	6, 22, 23, 25, 35, 48, 56, 103, 113, 117, 126, 152	6, 12, 16, 28, 35, 77, 106, 124



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MA.4.2.3 Understand the relationship between number patterns and multiples.	*6, *22, 25, 33, 51, 56, 87, 91, 151	115, 117
MA.4.2.4 Use patterns to predict the nth term.	*17, 25, 56, 60, 62, 77, *113, 124, *152	*12, *16, 124
MA.4.2.5 Represent the idea of a variable as an unknown quantity using a letter.	14, 34, 35, 44, 87, 126, 134, 152 True / Not True: 14, 74	9, 15, 19, 28, 31, 39, 45, 52, 56, 67, 69, 75, 80, 89, 93, 96, 99, 104, 109, 128, 143
Standard 3: Geometry (MA.S.3)		
MA.4.3.1 Identify plane figures and their components.	15, 39, 58, 71, 98, 132, 144	4, 24, 32, 36, 44, 53, 58, 65, 66, 78, 82, 94, 100, 107, 110, 119, 123, 131 Activity 3, 4, 9
MA.4.3.2 Compare and contrast quadrilateral shapes.	39, 58, 60, 144	24 Activity 3, 4, 9
MA.4.3.3 Describe three-dimensional objects from different perspectives.	40	140, 141 Activity 9
MA.4.3.4 Identify and draw intersecting, parallel, and perpendicular lines.	38, 39	
MA.4.3.5 Draw, label, compare, and classify acute, right, and obtuse angles.	70, 78, 132	
MA.4.3.6 Draw a design with one line of symmetry.	30, *60	Transformations: 36, 44, 53, 58, 66, 78, 82, 100, 107, 123
MA.4.3.7 Graph/plot ordered pairs on a one-quadrant grid.	65, 97, 120, 130, 140	Activity 5
MA.4.3.8 Draw and identify parts of a circle: center point, diameter, and radius.	71, 96, 132	
Standard 4: Measurement (MA.S.4)		
MA.4.4.1 Estimate, measure, compare, order and draw lengths using customary and metric units.	29, 30, 37, 63, 92, 121, 123	125
MA.4.4.2 Determine and compare areas of rectangles and squares by multiplying length and width.	68, 96, 120 Perimeter: 64, 96 Parallelogram: 147 Surface area: 149	118, 125, 135, 137, 150 Activity 7 Perimeter: 135
MA.4.4.3 Discover through modeling the formula for volume of a rectangular prism.	95, 105	



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MA.4.4.4 Understand appropriate grade level conversions within a system of measure.	*29, 37, 63, 87, 121, 123, 124, 139	125, 150
MA.4.4.5 Read scales of weight, capacity, and temperature and select appropriate unit.	30, 63, 123	23, 49, 76, 87, 95, 133, 134, 139, 144, 149, 154
MA.4.4.6 Read time to the minute.	18	
MA.4.4.7 Determine elapsed time in hours/ minutes within a 24-hour period.	18, 19, 57, 66, 90, 111, 124	1, 10, 18, 43, 70, 148
MA.4.4.8 Count coins and bills and determine correct change.	9, 26, 56, *139	16, 83, 91, 101, 114, 146
Standard 5: Data Analysis and Probability (MA.S.5)		
MA.4.5.1 Understand and reason about the use and misuse of statistics in our society.	*20, *56, *119, *139	
MA.4.5.2 Read and interpret information represented on a circle graph.	5	145, 151 Graphing Activity 6
MA.4.5.3 Collect, organize, display, read and interpret data from a problem solving situation in line graphs, bar graphs, tally charts and tables with scale increments greater than one.	20, 56, 80, 119, 152	86, 97, 112, 145, 151 Graphing Activity 1, 2, 3, 4, 5 Activity 12
MA.4.5.4 List all possible outcomes for an experiment using a tree diagram.	*45, *77	85, 121 Activity 1, 2 Probability: Graphing Activity 1, 2
MA.4.5.5 Determine mean, median, mode and range from collected data.	45, 122, 150 Ratios: 56	13, *145, *151 Graphing Activity *2 Activity 12

* Gives opportunity to teach specific Standard