



Texas 6th Grade TEKS / *Excel Math* Correlation

Texas Essential Knowledge and Skills	<i>Excel Math</i> Lesson Numbers	Stretch Lesson Numbers Activity Numbers
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MATHEMATICAL PROCESS STANDARDS

(1) The student uses mathematical processes to acquire and demonstrate mathematical understanding. The student is expected to:		
(A) apply mathematics to problems arising in everyday life, society, and the workplace;	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18
(B) use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution;	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18
(C) select tools, including real objects, manipulatives, paper and pencil, and technology as appropriate, and techniques, including mental math, estimation, and number sense as appropriate, to solve problems;	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18



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(D) communicate mathematical ideas, reasoning, and their implications using multiple representations, including symbols, diagrams, graphs, and language as appropriate;	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18
(E) create and use representations to organize, record, and communicate mathematical ideas;	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18
(F) analyze mathematical relationships to connect and communicate mathematical ideas; and	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18
(G) display, explain, and justify mathematical ideas and arguments using precise mathematical language in written or oral communication.	1, 2, 4, 5, 6, 7, 8, 9, 13, 19, 20, 29, 30, 31, 33, 34, 39, 40, 41, 42, 43, 55, 58, 63, 65, 67, 69, 72, 79, 86, 87, 89, 92, 94, 96, 97, 99, 104, 105, 106, 108, 110, 117, 120, 127, 133, 137, 140, 141, 150, 151, 152, 153, 154	2, 6, 7, 9, 10, 11, 13, 15, 17, 18, 24, 25, 26, 28, 30, 33, 35, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 50, 51, 52, 54, 55, 57, 58, 60, 61, 64, 65, 67, 68, 76, 79, 80, 82, 84, 85, 89, 90, 91, 92, 93, 94, 97, 99, 101, 104, 105, 120, 124, 134, 135, 136, 137, 138, 139, 140, 143, 145, 146, 147, 148, 149, 150, 152, 154 Activity 1, 2, 7, 10, 11, 12, 13, 14, 15, 16, 17, 18

*Gives opportunity to teach specific State Standard

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NUMBER AND OPERATIONS

(2) The student applies mathematical process standards to represent and use rational numbers in a variety of forms. The student is expected to:		
(A) classify whole numbers, integers, and rational numbers using a visual representation such as a Venn diagram to describe relationships between sets of numbers;	1, 5, 17, 19, 22, 24, 26, 27, 35, 45, 49, 50, 51, 52, *53, 54, 55, 56, 58, 61, 63, 64, 66, 71, 73, 74, 78, 83, 95, 101, 108, 111, 113, 116, 123, 128, 129, 130, 131, 136, 142, 143, 144, 149, 155	23, 29, *33, 36, *43, *52, 67, 86, 98, 117, 133, 153 Activity 3
(B) identify a number, its opposite, and its absolute value;	*63, 119, 130, 131 (opposites)	Activity 3
(C) locate, compare, and order integers and rational numbers using a number line;	*2, 22, *27, *35, 49, *47, *53, *57, 63, *71, 73, 74, *87, *95, 105, *111, *113, 119, 123, 129, 130, 131	23 Activity 3
(D) order a set of rational numbers arising from mathematical and real-world contexts; and	2, 17, 22, *27, 40, *49, *63, 73, 74, *119	*50
(E) extend representations for division to include fraction notation such as $\frac{a}{b}$ represents the same number as $a \div b$ where $b \neq 0$.	5, 18, 22, 27, *46, 48, 57, 93, 99, 107, 116, 117, 118, 128, 129, 135	

NUMBER AND OPERATIONS

(3) The student applies mathematical process standards to represent addition, subtraction, multiplication, and division while solving problems and justifying solutions. The student is expected to:		
(A) recognize that dividing by a rational number and multiplying by its reciprocal result in equivalent values;	16, *18, 26, *48, 57, *83, 93, 101, *117, 118, 120, 128, *135, 142, 151	49
(B) determine, with and without computation, whether a quantity is increased or decreased when multiplied by a fraction, including values greater than or less than one;	18, 44, *46, 57, 58, 78, 85, 101, 105, 106, 111, 112, 113, 117, 120, 129, 133, 135	
(C) represent integer operations with concrete models and connect the actions with the models to standardized algorithms;	1, 6, 7, 9, 12, 16, *18, 24, 26, 38, 43, 50, 55, 58, 65, 77, 84, 96, 103, 105, 107, 114, 116, 117, 118, 120, 126, 128, 129, 130, 131, 132, 133, 134, 136, 137, 141, 143, 144, 149, 150, 151, 152, 154, 155	50 Activity 18

Texas Essential Knowledge and Skills	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
(D) add, subtract, multiply, and divide integers fluently; and	1, 4, 6, 7, 9, 12, 13, 16, 17, 19, 20, 24, 26, 38, 40, 41, 43, 50, 54, 55, 56, 58, 62, 65, 72, 77, 82, 86, 89, 91, 96, 98, 103, 105, 107, 114, 116, 120, 122, 126, 130, 131, 132, 134, 136, 137, 141, 143, 144, 147, 149, 152, 154, 155	1, 8, 9, 10, 12, 16, 20, 26, 30, 31, 32, 34, 37, 41, 42, 60, 62, 65, 66, 68, 73, 75, 76, 78, 86, 87, 91, 98, 101, 102, 103, 113, 117, 123, 125, 126, 128, 132, 133, 142, 154 Activity 18
(E) multiply and divide positive rational numbers fluently.	1, 6, 7, 9, 12, 13, 16, 17, 18, 19, 20, 24, 26, 31, 38, 41, 42, 43, 44, 46, 51, 52, 55, 57, 58, 61, 62, 66, 67, 69, 71, 79, 81, 82, 85, 87, 94, 99, 101, 102, 103, 104, 106, 107, 110, 111, 112, 113, 116, 117, 118, 120, 124, 126, 127, 128, 129, 132, 133, 134, 135, 138, 140, 142, 147, 150, 151, 152, 153, 154	8, 10, 12, 25, 31, 44, 50, 68, 76, 130, 143 Activity 18
PROPORTIONALITY		
(4) The student applies mathematical process standards to develop an understanding of proportional relationships in problem situations. The student is expected to:		
(A) compare two rules verbally, numerically, graphically, and symbolically in the form of $y = ax$ or $y = x + a$ in order to differentiate between additive and multiplicative relationships;	10, *38, 40, 61, 66, 100, 115, 148, 151	3, 12, 13, 17, 31, 48, 75 Activity 18
(B) apply qualitative and quantitative reasoning to solve prediction and comparison of real-world problems involving ratios and rates;	10, 11, 18, 22, 34, 40, 41, 43, *66, 69, 72, 89, 97, 104, 105, 137, 148, 151, 152, 154	12, 13, 15, 17, 18, 24, 26, 30, 44, 47, 48, 76, 109, 119, 131, 140, 147 Activity 2, 7, 18
(C) give examples of ratios as multiplicative comparisons of two quantities describing the same attribute;	8, 11, 18, 22, *34, 40, 41, 66, 97, 104, 105, 137, 148, 154	47, 54, 104, 109, 144 Activity 2, 7, 18
(D) give examples of rates as the comparison by division of two quantities having different attributes, including rates as quotients;	10, 18, 22, *34, 40, 66, 69, 72, 89, 99, 104, 137, 151, 152, 154	12, 13, 15, 17, 25, 26, 30, 44, 76, 104, 144 Activity 2, 18
(E) represent ratios and percents with concrete models, fractions, and decimals;	40, 44, 52, *66, 67, 71, 90, 94, 97, 98, 99, 104, 105, 111, 116, 127, 133, 135	47, 48, 143, 144 Activity 1, 7



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(F) represent benchmark fractions and percents such as 1%, 10%, 25%, 33 1/3%, and multiples of these values using 10 by 10 grids, strip diagrams, number lines, and numbers;	18, *27, 44, 46, 67, 71, 90, 94, 95, 97, 99, 105, 111, *113, 119, 127, 133, *135	139, *147 Activity 1, 7
(G) generate equivalent forms of fractions, decimals, and percents using real-world problems, including problems that involve money; and	18, 22, 27, 35, 39, 42, 44, 46, *47, 48, 52, 53, 57, 62, 66, 67, 69, 71, 78, 83, 87, 90, 93, 94, 97, 99, 104, 105, 106, 110, 111, 113, 116, 120, 127, *128, *129, 133, 135, 142, 146, 148, 151	35, *38, 50, 143, 147, 150, 152 Activity 1, 7
(H) convert units within a measurement system, including the use of proportions and unit rates.	10, 11, 13, 18, 22, 29, 40, 41, 42, 43, 69, 72, 89, 92, 126, 137, 141, 151, 152	39, 47, 74, 111 Activity 7, 18
PROPORTIONALITY		
(5) The student applies mathematical process standards to solve problems involving proportional relationships. The student is expected to:		
(A) represent mathematical and real-world problems involving ratios and rates using scale factors, tables, graphs, and proportions;	8, 10, 11, 18, 22, 34, 40, 41, 42, 66, 69, 71, 72, 89, 94, 95, 97, 104, 105, 127, 137, 148, 151, 152, 154	12, 13, 15, 17, 18, 26, 30, 44, 47, 48, 50, 54, 76, *119, *131, *140 Activity 2, 7, 18
(B) solve real-world problems to find the whole given a part and the percent, to find the part given the whole and the percent, and to find the percent given the part and the whole, including the use of concrete and pictorial models; and	*19, *52, *53, *66, 67, *71, 94, 95, 97, 105, 110, 127, *129, 133	12, 13, 44, 47, 48, 54, 143, 147 Activity 1, 7
(C) use equivalent fractions, decimals, and percents to show equal parts of the same whole.	5, 18, *19, 27, 35, 42, 44, 46, *47, 48, 52, 53, 67, 71, 78, 83, 87, 90, 94, 95, 97, *98, 99, 104, 105, 106, 110, 111, 113, 116, *129, 133, 135, 140	35, 50, 143, 147 Activity 1, 7

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EXPRESSIONS, EQUATIONS, RELATIONSHIPS
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(6) The student applies mathematical process standards to use multiple representations to describe algebraic relationships. The student is expected to:		
(A) identify independent and dependent quantities from tables and graphs;	2, 8, 40, 69, 70, *94, 100, 104, *115	4, 11, 21, 75
(B) write an equation that represents the relationship between independent and dependent quantities from a table; and	2, 40, 69, 70, *94, 100, 104, *115	4, 11, 21, 47, 75
(C) represent a given situation using verbal descriptions, tables, graphs, and equations in the form $y = kx$ or $y = x + b$.	*8, 11, 40, *69, 70, 100, 104, 115	4, 11, 21, 75

EXPRESSIONS, EQUATIONS, RELATIONSHIPS
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(7) The student applies mathematical process standards to develop concepts of expressions and equations. The student is expected to:		
(A) generate equivalent numerical expressions using order of operations, including whole number exponents and prime factorization;	3, 37, *40, 50, 77, 91, 102, 114, 115	72, 88, 90, 141 Activity 9
(B) distinguish between expressions and equations verbally, numerically, and algebraically;	3, 17, 37, 40, 91, 100, 112, 114, 115	
(C) determine if two expressions are equivalent using concrete models, pictorial models, and algebraic representations; and	3, 5, 37, 39, 40, 83, *91, 112, 114, 132, 148	
(D) generate equivalent expressions using the properties of operations: inverse, identity, commutative, associative, and distributive properties.	3, 5, 6, 37, 39, *40, 91, 112, 114, 132, 148	5, 92

EXPRESSIONS, EQUATIONS, RELATIONSHIPS
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(8) The student applies mathematical process standards to use geometry to represent relationships and solve problems. The student is expected to:		
(A) extend previous knowledge of triangles and their properties to include the sum of angles of a triangle, the relationship between the lengths of sides and measures of angles in a triangle, and determining when three lengths form a triangle;	14, *21, 25, 33, 80, 88, *124, 148	14, 45, 53, 71 Activity 4, 6



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(B) model area formulas for parallelograms, trapezoids, and triangles by decomposing and rearranging parts of these shapes;	14, 21, *30, 75, 76, 100, 121, 124, 139	28 Activity 4, 5, 6, 7
(C) write equations that represent problems related to the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers; and	14, 25, 30, 59, 75, 76, 100, 108, 121, 124, 139	28, *39, 56, 59, 63, 77 Activity 4, 5, 6, 7, 9
(D) determine solutions for problems involving the area of rectangles, parallelograms, trapezoids, and triangles and volume of right rectangular prisms where dimensions are positive rational numbers.	14, 30, 59, 75, 76, 100, 108, 121, 124, 139	28, *39, 56, 59, 63, 77 Activity 4, 5, 6, 7, 9
EXPRESSIONS, EQUATIONS AND RELATIONSHIPS		
(9) The student applies mathematical process standards to use equations and inequalities to represent situations. The student is expected to:		
(A) write one-variable, one-step equations and inequalities to represent constraints or conditions within problems;	1, 3, 4, 8, 31, 40, 47, 48, 54, 57, 61, 79, 83, 84, 96, 100, 114, 115, 116, 133	2, 3, 5, 6, 7, 8, 12, 22, 27, 46, 55, 73, 78, 79, 81, 82, 83, 85, 87, 96, 110, 115
(B) represent solutions for one-variable, one-step equations and inequalities on number lines; and	1, 3, 4, 8, 31, 40, 48, 54, 57, *61, 79, *83, 84, *96, 100, 114, 115, *116, 133	2, 3, 5, 6, 7, 8, 12, 22, 27, 46, 55, 73, 78, 79, 81, 82, 83, 85, 87, 96, 110, 115
(C) write corresponding real-world problems given one-variable, one-step equations or inequalities.	*3, 4, 31, 40, *61, 79, *83, 84, 96, 100, 114, 115, *116, 133	2, 6, 7, 12, 13, 15, 16, 17, 18, 21, 24, 25, 26, 28, 30, 46, 50, 54, 55, 82, 85, 90, 91, 93, 94, 99, 101, 104, 124, 135, 138, 139, 140, 143, 149, 150, 154
EXPRESSIONS, EQUATIONS AND RELATIONSHIPS		
(10) The student applies mathematical process standards to use equations and inequalities to solve problems. The student is expected to:		
(A) model and solve one-variable, one-step equations and inequalities that represent problems, including geometric concepts; and	1, 3, 17, 18, 30, 31, 40, 54, 57, 59, 61, 83, 84, 91, 96, 100, 114, 115, 116, 133	2, 3, 5, 6, 7, 8, 12, 16, 22, 27, 31, 39, 55, 78, 79, 81, 82, 83, 85, 87, 96, 110, 115, 132
(B) determine if the given value(s) make(s) one-variable, one-step equations or inequalities true.	1, 3, 17, 18, 40, 54, 57, 59, 61, 83, 84, 91, 96, 100, 114, 115, 116, 133	2, 3, 5, 6, 7, 8, 12, 16, 22, 27, 31, 39, 55, 78, 79, 81, 82, 83, 85, 87, 96, 110, 115, 132

*Gives opportunity to teach specific State Standard

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MEASUREMENT AND DATA

(11) The student applies mathematical process standards to use coordinate geometry to identify locations on a plane. The student is expected to graph points in all four quadrants using ordered pairs of rational numbers.	25, 32, 36, 68, 70, 76, 109, 115, 145	Activity 8
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MEASUREMENT AND DATA

(12) The student applies mathematical process standards to use numerical or graphical representations to analyze problems. The student is expected to:		
(A) represent numeric data graphically, including dot plots, stem-and-leaf plots, histograms, and box plots;	2, 65, 70, 97, 100, 137	4 Activity 10, 11, 12, 13, 16, 17
(B) use the graphical representation of numeric data to describe the center, spread, and shape of the data distribution;	2, 65, 70, 100, 120, 137 Averages: 55	47 Averages: 89, 138 Activity 10, 11, 12, 13, 16, 17
(C) summarize numeric data with numerical summaries, including the mean and median (measures of center) and the range and interquartile range (IQR) (measures of spread), and use these summaries to describe the center, spread, and shape of the data distribution; and	20, 65, 70, *100, 120, 137 Averages: 55	4 Averages: 89, 138 Activity 10, 11, 12, 13, 16, 17
(D) summarize categorical data with numerical and graphical summaries, including the mode, the percent of values in each category (relative frequency table), and the percent bar graph, and use these summaries to describe the data distribution.	65, 70, 94, 100, *137	*4, 11 Activity 10, 11, 12, 13

MEASUREMENT AND DATA

(13) The student applies mathematical process standards to use numerical or graphical representations to solve problems. The student is expected to:		
(A) interpret numeric data summarized in dot plots, stem-and-leaf plots, histograms, and box plots; and	2, 8, 65, 70, 100, 137	4, 11, 21 Activity 10, 11, 12, 13, 15, 16, 17
(B) distinguish between situations that yield data with and without variability.	2, 8, 65, 70, 100, 137	4, 11, 21 Activity 10, 11, 12, 13, 15, 16, 17

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PERSONAL FINANCIAL LITERACY		
(14) The student applies mathematical process standards to develop an economic way of thinking and problem solving useful in one's life as a knowledgeable consumer and investor. The student is expected to:		
(A) compare the features and costs of a checking account and a debit card offered by different local financial institutions;	*42, *72, *86, *110, 117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152 Activity *14
(B) distinguish between debit cards and credit cards;	*42, *72, *86, *110, 117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152
(C) balance a check register that includes deposits, withdrawals, and transfers;	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152 Activity 14
(D) explain why it is important to establish a positive credit history;	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152 Activity 14
(E) describe the information in a credit report and how long it is retained;	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152
(F) describe the value of credit reports to borrowers and to lenders;	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152
(G) explain various methods to pay for college, including through savings, grants, scholarships, student loans, and work-study; and	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152
(H) compare the annual salary of several occupations requiring various levels of postsecondary education or vocational training and calculate the effects of the different annual salaries on lifetime income.	*42, *72, *86, *110, *117, *151, *152 Create A Problem: *6, *22, *23	*12, *18, *26, *35, *38, *44, *46, *76, *92, *85, *93, *143, *150, *152

Please Note: Excel Math does not have a specific curriculum component for ‘**Personal Financial Literacy**,’ but the above referenced Lessons give opportunity for teachers to teach these concepts.



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These are advanced *Excel* Math concepts that go beyond Texas Standards for Grade 6. Alternate TEKS Lessons are provided in the Teacher Edition.

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Probability / Possibilities	34, 133, 150	19, 146, 147
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Solve for an unknown with similar polygons	148	
Multiply negative and positive numbers	155	



**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	<i>Excel Math</i> Lesson Objective	Texas Essential Knowledge and Skills
L1	Recognize numbers less than a million; add, subtract and multiply whole numbers or money amounts with regrouping; recognize multiples; select correct equation; solve multi-step word problems; calculate change; recognize money number words; recognize addition and subtraction fact families; Optional: recognize <i>ordinal number words</i> up to 100	Mathematical Process Standards: 6.1A-G Number and Operations: 6.2A; 6.3C, D, E; Expressions, Equations and Relationships: 6.9A, B; 6.10A, B
L2	Compare two or more sets of data using <i>bar</i> or <i>line graphs</i> ; interpret information given in a <i>histogram</i> ; recognize the symbols <i>< less than</i> and <i>> greater than</i> ; fill in missing numbers in sequences count by numbers from 1 to 12; arrange 4 four-digit numbers in order from least to greatest and greatest to least; select the correct symbol for a number statement	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2*C, D; Expressions, Equations and Relationships: 6.6A, B; Measurement and Data: 6.12A, B; 6.13A, B
L3	Recognize true and not true number statements; use trial and error to solve for unknowns in an equation; solve algebraic equations with and without parentheses; change a number statement from \neq to $=$; learn the order of operations when solving an equation	Expressions, Equations and Relationships: 6.7A, B, C, D; 6.9A, B, *C; 6.10A, B
L4	Learn 7 days = 1 week; learn 1 year = 12 months; learn number of days in each month; compute the date within the month; Optional: learn abbreviations for days and months	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D; Expressions, Equations and Relationships: 6.9A, B, C
L5	Define <i>numerator</i> and <i>denominator</i> ; determine fractional part of a group; learn the whole is the sum of its parts; add and subtract fractions and mixed numbers with like denominators	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A, E; Proportionality 6.5C; Expressions, Equations and Relationships: 6.7C, D
L6	Recognize <i>multiplication</i> and <i>division fact families</i> ; learn division facts with dividends up through 81; divide a one-digit divisor into a three-digit dividend; solve multi-step word problems involving division; learn the terminology for multiplication and division	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Expressions, Equations and Relationships: 6.7D

*Gives opportunity to teach specific State Standard



**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	<i>Excel Math</i> Lesson Objective	Texas Essential Knowledge and Skills
L7	Add, subtract and multiply with multi-digit decimals; solve word problems using <i>deductive reasoning</i> ; determine if there is sufficient information and what information is needed to answer the question in a word problem	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E
L8	Give examples of ratios as multiplicative comparisons of two quantities describing the same attribute; solve word problems by listing possibilities or by making a chart	Mathematical Process Standards: 6.1A-G Proportionality 6.4C; 6.5A; Expressions, Equations and Relationships: 6.6A, *C; 6.9A, B; Measurement and Data: 6.13A, B
L9	Learn division facts with remainders with dividends up through 81; solve word problems involving division	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E
L10	Define <i>numerator</i> and <i>denominator</i> ; determine the fractional part of a group of items when modeled or given in words; learn that the whole is the sum of its parts; add and subtract fractions and mixed numbers with like denominators	Proportionality 6.4A, B, D, H; 6.5A
L11	Convert units within a measurement system; measure <i>line segments</i> to the nearest half inch, quarter inch and half centimeter; compare U.S. customary and metric units; make tables of equivalent ratios and find missing values in the tables	Proportionality 6.4B, C, H; 6.5A; Expressions, Equations and Relationships: 6.6 C
L12	Multiply by a two-digit multiplier; multiply multi-digit decimals	Number and Operations: 6.3C, D, E
L13	Find the least common multiple of two whole numbers less than or equal to 12; learn 60 minutes = 1 hour; tell time to the minute; recognize a quarter past or before the hour and half past the hour; calculate minutes before the hour; calculate elapsed time (hours) involving <i>AM</i> and <i>PM</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D, E; Proportionality 6.4H
L14	Compute the area of the rectangle; learn the terminology of <i>parallel</i> , <i>intersecting</i> and <i>perpendicular lines</i> , <i>plane figure</i> , <i>polygon</i> , <i>quadrilateral</i> , <i>parallelogram</i> , <i>rectangle</i> , <i>square</i> , <i>diagonal</i> , <i>rhombus</i> and <i>trapezoid</i>	Expressions, Equations and Relationships: 6.8A, B, C, D
L15	Recognize <i>three-dimensional figures</i> - sphere, cube, cone, cylinder, rectangular, square and triangular pyramids and rectangular and triangular prisms; learn the terminology of flat and curved <i>faces</i> , <i>bases</i> , <i>edges</i> and <i>vertices</i>	Geometry and Measurement: 5.5 (Reviews TEKS concepts from previous year)

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L16	Divide a one-digit divisor into a three-digit dividend with a two-digit quotient with regrouping and remainders	Number and Operations: 6.3A, C, D, E
L17	Determine the <i>lowest common multiple</i> ; learn division and multiplication facts	Number and Operations: 6.2E, D; 6.3*A, B, *C, E; Expressions, Equations and Relationships: 6.7B; 6.10A, B
L18	Understand ratios; describe a ratio relationship between two quantities; determine <i>equivalent fractions</i> using models, money, multiplication or division	Number and Operations: 6.2E; 6.3B, C, E; Proportionality 6.4B, C, D, F, G, H; 6.5A, C; Expressions, Equations and Relationships: 6.10A, B
L19	Compute $\frac{1}{2}$ to $\frac{1}{9}$ of a group of items; Optional: recognize <i>odd</i> and <i>even</i> numbers	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A; 6.3D, E; Proportionality 6.5*B,* C
L20	<i>Round</i> to the nearest ten, hundred or thousand; estimate answers for addition, subtraction and multiplication word problems using rounding; estimate range for an answer	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D, E; Measurement and Data: 6.12C
L21	TEKS Alternate: Activity #2 – Ratios in Word Problems; Opt: learn the terminology of <i>pentagon</i> , <i>hexagon</i> and <i>octagon</i> ; determine figures that do or do not belong in a set; recognize <i>patterns</i>	Mathematical Process Standards: 6.1A-G; Proportionality 6.4B, C, D, G; 6.5A, C Expressions, Equations and Relationships: 6.8*A, B
L22	Put simple fractions in order from least to greatest and greatest to least; determine the fraction with the greatest or least value	Number and Operations: 6.2A, C, D, E; Proportionality 6.4B, C, D, G, H; 6.5A
L23	TEKS Alternate: Activity #3 - Real & Whole Numbers on a Number Line; recognize lines of symmetry; Opt: Recognize <i>similar</i> and <i>congruent figures</i> ; recognize <i>flips</i> , <i>slides</i> and <i>turns</i> ; <i>bilateral</i> and <i>rotational symmetry</i>	Number and Operations: 6.2A, B, C Geometry and Measurement: 5.5A; Geometry and Measurement: 4.6B
L24	Recognize numbers up through <i>trillions</i> given in words or place value; recognize numbers given in expanded notation	Number and Operations: 6.2A; 6.3C, D, E
L25	Graph coordinate points in all quadrants; learn the sum of the angles of a rectangle; recognize <i>right</i> , <i>obtuse</i> and <i>acute</i> angles; measure and estimate <i>angles</i> ; recognize <i>equilateral</i> , <i>isosceles</i> and <i>scalene</i> triangles; learn the sum of the angles of a triangle	Expressions, Equations and Relationships: 6.8A, C; Measurement and Data: 6.11
L26	Divide a two-digit divisor into a dividend less than 100 with remainders	Number and Operations: 6.2A; 6.3A, C, D, E

*Gives opportunity to teach specific State Standard



**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L27	Convert an <i>improper fraction</i> to a mixed or whole number; determine the fraction with the greatest or least value in a set of fractions	Number and Operations: 6.2A, *C, *D, E; Proportionality 6.4*F, G; 6.5C
L28	Add and subtract fractions with unlike denominators	Number and Operations: 5.3H
L29	Read maps drawn to scale	Mathematical Process Standards: 6.1A-G; Proportionality 6.4H
L30	Calculate the <i>area</i> and <i>perimeter</i> of a rectangle; solve word problems involving <i>area</i> and <i>perimeter</i>	Mathematical Process Standards: 6.1A-G; Expressions, Equations and Relationships: 6.8*B, C, D; 6.10A
L31	Divide dollars by dollars	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Expressions, Equations and Relationships: 6.9A, B, C; 6.10A
L32	Determine <i>coordinate points</i>	Measurement and Data: 6.11
L33	Recognize the pattern in a sequence of figures or pattern of shading; solve for an unknown angle in a triangle	Expressions, Equations and Relationships: 6.8A
L34	Understand ratios; describe a ratio relationship between two quantities; compare probabilities	Mathematical Process Standards: 6.1A-G; Proportionality 6.4B, *C, *D; 6.5A
L35	Recognize <i>tenths</i> and <i>hundredths</i> places; write mixed numbers as decimal numbers; write decimal numbers as mixed numbers; recognize decimal number words; add and subtract decimal numbers	Number and Operations: 6.2A, *C; Proportionality 6.4G; 6.5C
L36	Calculate the length of vertical and horizontal lines by subtracting x- and y-coordinates	Measurement and Data: 6.11
L37	Learn the <i>Distributive Property of Multiplication</i> ; learning the <i>Associative Property of Multiplication and Addition</i> ; learn the <i>Commutative Property of Addition and Multiplication</i>	Expressions, Equations and Relationships: 6.7A, B, C, D
L38	Divide a one-digit divisor into a four-digit dividend with a three-digit quotient; learn the <i>Property of One</i> and the <i>Zero Property</i> of Addition and Multiplication	Number and Operations: 6.3C, D, E; 6.4*A
L39	Add and subtract fractions in word problems	Mathematical Process Standards: 6.1A-G; Proportionality 6.4G; Expressions, Equations and Relationships: 6.7C, D

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Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L40	Recognize multiplication without the “x” symbol; calculate answers to word problems using 2 to 1 and 5 to 1 ratios	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2D; 6.3D; Proportionality 6.4A, B, C, D, E, H; 6.5A; Expressions, Equations and Relationships: 6.6A, B, C; 6.7*A, B, C, D; 6.9A, B, C; 6.10A, B
L41	Learn the equivalent for one year in days and in weeks; learn about <i>leap year</i> ; calculate elapsed time	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D, E; Proportionality 6.4B, C, H; 6.5A
L42	Determine the question given the information and the answer; estimate the most reasonable answer	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4G, H; 6.5A, C; Personal Financial Literacy: 6.14*A-H
L43	Calculate elapsed time in minutes across the 12 on a clock	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Proportionality 6.4B, H
L44	Convert fractions and decimals to percents by setting up equivalent fractions	Number and Operations: 6.3B, E; Proportionality 6.4E, F, G; 6.5C
L45	Use <i>Venn Diagrams</i> to understand the <i>union</i> and <i>intersection of sets</i>	Number and Operations: 6.2A
L46	Convert mixed numbers to decimal numbers by setting up equivalent fractions	Number and Operations: 6.2*E; 6.3*B, E; Proportionality 6.4F, G; 6.5C
L47	Compare fractions with unlike denominators in less than and greater than problems and in true and not true number statements by setting up equivalent fractions	Number and Operations: 6.2*C; Proportionality 6.4*G; 6.5*C; Expressions, Equations and Relationships: 6.9A
L48	Convert improper fractions as part of mixed numbers; recognize division without the “÷” symbol	Number and Operations: 6.2E; 6.3*A; Proportionality 6.4G; 6.5C; Expressions, Equations and Relationships: 6.9A, B
L49	<i>Round</i> money amounts and decimal numbers to the nearest dollar or whole number	Number and Operations: 6.2A, C, *D
L50	Determine <i>factors, prime numbers, composite numbers, prime factors</i> and <i>greatest common factors</i>	Number and Operations: 6.2A; 6.3C, D; Expressions, Equations and Relationships: 6.7A
L51	Multiply decimal numbers	Number and Operations: 6.2A; 6.3E
L52	Divide decimal numbers by whole numbers; convert percents to decimal numbers	Number and Operations: 6.2A; 6.3E; Proportionality 6.4E, G; 6.5*B, C
L53	Compare decimal numbers in less than and greater than problems	Number and Operations: 6.2*A, *C; Proportionality 6.4G; 6.5*B, C
L54	TEKS Alternate: Activity #1 - Percent Problems; Opt: recognizing <i>Roman numerals</i> : I, V, X, L, C, D and M	Mathematical Process Standards: 6.1A-G; Proportionality 6.4E, F, G; 6.5B, C Number and Operations: 6.2A; 6.3D; Expressions, Equations and Relationships: 6.9A, B; 6.10A, B

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L55	Calculating <i>averages</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A; 6.3C, D, E; Measurement and Data: 6.12B, C
L56	Determining the <i>greatest common factor</i> and <i>least common factor</i>	Number and Operations: 6.2A; 6.3D
L57	Simplifying fractions; solving equations involving fractions	Number and Operations: 6.2*C, E; 6.3A, B, E; Proportionality 6.4G; Expressions, Equations and Relationships: 6.9A, B; 6.10A, B
L58	Estimating answers to problems involving numbers with up to nine digits	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A; 6.3B, C, D, E
L59	Calculating the <i>volume</i> of a rectangular prism with one or more layers of cubes using the formula $L \times W \times H$	Expressions, Equations and Relationships: 6.8C, D; 6.10A, B
L60	Associate 360 degrees in a circle with one-quarter, one-half, three-quarter & full turns; Opt. recognizing parts of a <i>circle</i> ; calculating <i>diameter</i> and <i>radius</i>	Geometry and Measurement; 4.7A, B (TEKS concept from a previous year)
L61	Recognizing the <i>thousandths</i> place; rounding decimal numbers to the nearest tenth or hundredth; solving equations involving decimals	Number and Operations: 6.2A; 6.3E; Proportionality 6.4A; Expressions, Equations and Relationships: 6.9A, *B,*C; 6.10A, B
L62	Dividing a two-digit divisor into a three-digit dividend with a two-digit quotient; simplifying fraction answers	Number and Operations: 6.3D, *E; Proportionality 6.4G
L63	Comparing <i>positive</i> and <i>negative</i> numbers	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A, *B, C, *D
L64	Determining numbers that are multiples of one number and factors of another	Number and Operations: 6.2A
L65	Calculating <i>mean</i> , <i>median</i> and <i>mode</i> ; using <i>stem and leaf plots</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D; Measurement and Data: 6.12A, B, C, D; 6.13A, B
L66	Calculating <i>equivalent ratios</i>	Number and Operations: 6.2A; 6.3E; Proportionality 6.4A, B, *C, D, *E, G; 6.5A, *B
L67	Determining percent in word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4E, F, G; 6.5B, C
L68	Determining if coordinate points are on a given line	Measurement and Data: 6.11
L69	Using trial and error and charting strategies to solve word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4B, D, G, H; 6.5A; Expressions, Equations and Relationships: 6.6*A, B, *C

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L70	Defining <i>dependent</i> and <i>independent variable</i> , <i>central tendency</i> , <i>statistics</i> and <i>outlier</i> ; recognizing factors that influence data collection; creating a scatter plot	Expressions, Equations and Relationships: 6.6A, B, C; Measurement and Data: 6.11; 6.12A, B, C, D; 6.13A, B
L71	Computing the percent of a whole number, money amount or decimal number	Number and Operations: 6.2A, *C; 6.3E; Proportionality 6.4E, F, G; 6.5A, *B, C
L72	Calculating <i>cost per unit</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D; Proportionality 6.4B, D, H; 6.5A; Personal Financial Literacy: 6.14*A-H
L73	Filling in missing numbers in a sequence of decimal numbers	Number and Operations: 6.2A, *C, D
L74	Putting decimal numbers in order from least to greatest and greatest to least; evaluating decimal numbers in true and not true number statements	Number and Operations: 6.2A, C, D
L75	Calculating the perimeter and area of an irregular figure	Expressions, Equations and Relationships: 6.8B, C, D
L76	Calculating area and perimeter given coordinates on a coordinate grid	Expressions, Equations and Relationships: 6.8B, C, D; 6.11
L77	Calculating using <i>exponents</i> ; calculating <i>square roots</i>	Number and Operations: 6.3C, D; Expressions, Equations and Relationships: 6.7A
L78	Selecting an equivalent fraction; simplifying improper fractions as part of a mixed number answer	Number and Operations: 6.2A; 6.3B; Proportionality 6.4G; 6.5C
L79	Solving word problems involving decimals	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Expressions, Equations and Relationships: 6.9A, B, C
L80	Recognizing <i>complementary</i> , <i>straight</i> and <i>supplementary angles</i>	Expressions, Equations and Relationships: 6.8*A Geometry and Measurement: 4.7A Expressions, Equations and Relationships: 7.11C
L81	Calculating decimal answers in division problems when zeroes need to be added to the right of the dividend	Number and Operations: 6.3E
L82	Dividing using short division	Number and Operations: 6.3D, E
L83	Converting mixed numbers to improper fractions	Number and Operations: 6.2A, 6.3*A; Proportionality 6.4G; 6.5C; Expressions, Equations and Relationships: 6.7C; 6.9A, B, *C; 6.10 A, B
L84	Filling in missing numbers in sequences counting by varying amounts	Number and Operations: 6.3C; Expressions, Equations and Relationships: 6.9A, B, C; 6.10A, B

*Gives opportunity to teach specific State Standard



Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L85	Multiplying fractions and whole numbers by fractions	Number and Operations: 6.3B, E
L86	<i>Estimating</i> to the nearest dollar or whole number	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D; Personal Financial Literacy: 6.14*A-H
L87	Comparing fractions in word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2*C; 6.3E; Proportionality 6.4G; 6.5C
L88	Recognizing <i>angles</i>	Expressions, Equations and Relationships: 6.8A
L89	Selecting the fraction, percent or decimal number that best represents a shaded region	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3D; Proportionality 6.4B, D, H; 6.5A
L90	Selecting the fraction, percent or decimal number that best represents a shaded region	Proportionality 6.4E, F, G; 6.5C
L91	Solving equations with embedded parentheses	Number and Operations: 6.3D Expressions, Equations and Relationships: 6.7A, B, *C, D; 6.10A, B
L92	TEKS Alternative: Activity #4 - Area & Perimeter of Triangles Opt.: Calculating elapsed time more than one week moving into a new month	Expressions, Equations and Relationships: 6.8A, B, C, D Mathematical Process Standards: 6.1A-G; Proportionality 6.4H
L93	Reducing improper fraction answers to their lowest terms	Number and Operations: 6.2E; 6.3A; Proportionality 6.4G; Number and Operations: 5.3H
L94	Solving problems using data displayed as <i>percent pie graphs</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4E, F, G; 6.5A, B, C; Expressions, Equations and Relationships: 6.6*A, *B Measurement and Data: 6.12D
L95	Recognizing decimal places to the right of the thousandths; multiplying decimals when zeroes need to be added to the product	Number and Operations: 6.2A, *C; Proportionality 6.4F; 6.5A, B, C
L96	Solving word problems by working backwards	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D; Expressions, Equations and Relationships: 6.9A, *B, C; 6.10A, B
L97	Writing probability as a fraction, decimal, percent or proportion (ratio)	Mathematical Process Standards: 6.1A-G; Proportionality 6.4B, C, E, F, G; 6.5A, B, C; Measurement and Data: 6.12A
L98	Selecting the most reasonable answer involving percents	Number and Operations: 6.3D; Proportionality 6.4E; 6.5*C
L99	Writing probabilities as lowest-terms fractions	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2E; 6.3E; Proportionality 6.4D, E, F, G; 6.5C

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L100	Determining the equation that creates a pattern; Opt. calculating the <i>surface area</i> of a rectangular prism	Proportionality 6.4A; Expressions, Equations and Relationships: 6.6A, B, C; 6.7B; 6.8B, C, D; 6.9A, B, C; 6.10A, B; Measurement and Data: 6.12A, B, *C, D; 6.13;A, B
L101	Determining <i>reciprocals</i>	Number and Operations: 6.2A; 6.3A, B, E
L102	Multiplying and dividing decimal numbers by powers of ten	Number and Operations: 6.3E; Expressions, Equations and Relationships: 6.7A
L103	Dividing a three-digit divisor into a three-digit dividend with a one-digit quotient	Number and Operations: 6.3C, D
L104	Multiplying mixed numbers	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4B, C, D, E, G; 6.5A, C; Expressions, Equations and Relationships: 6.6A, B, C
L105	Solving word problems involving percent, including the word “not”	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2C; 6.3B, C, D; Proportionality 6.4B, C, E, F, G; 6.5A, B, C
L106	Subtracting fractions with like denominators with regrouping	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3B, E; Proportionality 6.4G; 6.5C
L107	Simplifying division problems using powers of ten	Number and Operations: 6.2E; 6.3C, D, E
L108	Estimating using rounding to one-digit accuracy; calculating volume in word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2A; Expressions, Equations and Relationships: 6.8C, D
L109	Determining negative numbers using coordinate points	Measurement and Data: 6.11
L110	Solving word problems involving sales tax, sale price, interest and profit	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4G; 6.5B, C; Personal Financial Literacy: 6.14*A-H
L111	Converting decimal numbers to percents and percents to decimal numbers	Number and Operations: 6.2A, *C; 6.3B, E; Proportionality 6.4E, F, G; 6.5C
L112	Using multiplication and division to simplify fraction multiplication problems; simplifying fractions before multiplying	Number and Operations: 6.3B, E; Expressions, Equations and Relationships: 6.7B, C, D
L113	Converting decimal numbers to lowest-terms fractions or mixed numbers	Number and Operations: 6.2A, *C; 6.3B, E; Proportionality 6.4*F, G; 6.5C
L114	Determining the equation that represents a problem and the equation that solves it	Number and Operations: 6.3C, D; Expressions, Equations and Relationships: 6.7A, B, C, D; 6.9A, B, C; 6.10A, B

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L115	Identifying the equation that represents a line on a coordinate graph; learning <i>slope</i> and <i>intercept</i>	Proportionality 6.4A; Expressions, Equations and Relationships: 6.6*A, *B, C; 6.7A, B; 6.9A, B, C; 6.10A, B; Measurement and Data: 6.11
L116	Determining percent of a whole number	Number and Operations: 6.2A, E; 6.3C, D, E; Proportionality 6.4E, G; 6.5C; Expressions, Equations and Relationships: 6.9A, *B, *C; 6.10A, B
L117	Solving word problems involving the multiplication of fractions and mixed numbers	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.2E; 6.3*A, B, C, E; Personal Financial Literacy: 6.14A, B
L118	Dividing fractions	Number and Operations: 6.2E; 6.3A, C, E
L119	Arranging fractions, decimal numbers and mixed numbers on a number line	Number and Operations: 6.2B, C, *D; Proportionality 6.4F
L120	Calculating averages involving decimals and fractions	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3A, B, C, D, E; Proportionality 6.4G; Measurement and Data: 6.12B, C
L121	Calculating the <i>area of a parallelogram</i>	Expressions, Equations and Relationships: 6.8B, C, D
L122	Multiplying a three-digit number by a three-digit number	Number and Operations: 6.3D
L123	Rounding mixed numbers	Number and Operations: 6.2A, C
L124	Calculating the <i>area of a triangle</i>	Number and Operations: 6.3E; Expressions, Equations and Relationships: 6.8*A, B, C, D
L125	TEKS Alternate: Activity #6 - Area & Perimeter of Trapezoids; Opt: calculating circumference and area of a circle; π (<i>pi</i>)	Expressions, Equations and Relationships: 6.8B, C, D
L126	Converting measurements using multiplication or division with fractional or decimal remainders	Number and Operations: 6.3C, D, E; Proportionality 6.4H
L127	Calculating percents in word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.4E, F, G; 6.5A, B
L128	Converting fractions to decimal numbers using division; recognizing the symbol for a repeating decimal	Number and Operations: 6.2A, E; 6.3A, C, E; Proportionality 6.4*G
L129	Converting fractions to percents	Number and Operations: 6.2A, C, E; 6.3B, C, E; Proportionality 6.4G; 6.5*B, *C
L130	Understanding absolute value using number lines; adding positive and negative integers	Number and Operations: 6.2A, B, C; 6.3C, D
L131	Adding positive and negative integers	Number and Operations: 6.2A, B, C; 6.3C, D

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L132	Dividing a two-digit divisor into a three-digit dividend with a one-digit quotient	Number and Operations: 6.3C, D, E; Expressions, Equations and Relationships: 6.7C, D
L133	Calculating expected numbers based on probabilities	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3B, C, E; Proportionality 6.4E, F, G; 6.5B, C; Expressions, Equations and Relationships: 6.9A, B, C; 6.10A, B
L134	Using rounding to estimate quotients	Number and Operations: 6.3C, D, E
L135	Determining percents that are greater than 100% and less than 1%	Number and Operations: 6.2E; 6.3*A, B, E; Proportionality 6.4E, *F, G; 6.5C
L136	Dividing a three-digit divisor into a four-digit dividend with a two-digit quotient	Number and Operations: 6.2A; 6.3C, D
L137	Adding and multiplying measurements, then simplifying units	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D; Proportionality 6.4B, C, D, H; 6.5A; Measurement and Data: 6.12A, B, C, *D; 6.13A, B
L138	Dividing a decimal number by a decimal number	Number and Operations: 6.3E
L139	Calculating the <i>volume of a triangular prism or cylinder</i> (optional)	Expressions, Equations and Relationships: 6.8B, C, D
L140	Reviewing rounding quotients; calculating percents in word problems, rounding to the nearest whole percent	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E; Proportionality 6.5C
L141	Subtracting measurements by exchanging units	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D; Proportionality 6.4H
L142	Dividing mixed numbers	Number and Operations: 6.2A; 6.3E; Proportionality 6.4G
L143	Subtracting positive and negative integers	Number and Operations: 6.2A; 6.3C, D
L144	Subtracting positive and negative integers	Number and Operations: 6.2A; 6.3C, D
L145	Determining the fourth vertex of a parallelogram on a coordinate graph	Measurement and Data: 6.11
L146	Subtracting mixed numbers and fractions with unlike denominators with regrouping	Proportionality 6.4G
L147	Dividing a three-digit divisor into a four-digit dividend with a one-digit quotient	Number and Operations: 6.3D, E
L148	Opt: solving for an unknown with similar polygons; TEKS Alternate: Activity #12 - Displaying Data on Dot Plots;	Proportionality 6.4A, B, C, G; 6.5A; Expressions, Equations and Relationships: 6.7C, D; 6.8A Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, BC, D; 6.13A, B
L149	Determining number patterns	Number and Operations: 6.2A; 6.3C, D

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**Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number**

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
L150	TEKS Alternate: Activity #18 - Calculating Unit Rate, Speed, Range and Velocity; Opt: calculating the probability of two separate events as a sum and two consecutive events as a product; calculating using <i>factorials</i> and <i>permutations</i>	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Proportionality 6.4A, B, C, D, H; 6.5A;
L151	Using ratio reasoning; comparing the value of products using different currencies	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3A, C, E; Proportionality 6.4A, B, D, G, H; 6.5A; Personal Financial Literacy: 6.14*A-H
L152	Calculating and comparing cost per unit	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Proportionality 6.4B, D, H; 6.5A; Personal Financial Literacy: 6.14*A-H
L153	Solving word problems involving division of fractions and mixed numbers	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3E
L154	Using ratio and rate reasoning; estimating answers to division word problems	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Proportionality 6.4B, C, D; 6.5A
L155	Multiplying and dividing positive and negative integers	Number and Operations: 6.2A; 6.3C, D
Activity 1	Percent Problems	Mathematical Process Standards: 6.1A-G; Proportionality 6.4E, F, G; 6.5B, C
Activity 2	Ratios in Word Problems	Mathematical Process Standards: 6.1A-G; Proportionality 6.4B, C, D; 6.5A
Activity 3	Real & Whole Numbers on a Number Line	Number and Operations: 6.2A, B, C
Activity 4	Area & Perimeter: Triangles	Expressions, Equations and Relationships: 6.8A, B, C, D
Activity 5	Area & Perimeter: Polygons	Expressions, Equations and Relationships: 6.8B, C, D
Activity 6	Area & Perimeter: Trapezoids	Expressions, Equations and Relationships: 6.8A, B, C, D
Activity 7	Calculating Area & Ratios	Mathematical Process Standards: 6.1A-G; Proportionality 6.4B, C, E, F, G, H; 6.5A, B, C; Expressions, Equations and Relationships: 6.8B, C, D
Activity 8	Graphing Coordinates on a Plane	Measurement and Data: 6.11
Activity 9	Constructing Cubes to Find Volume Using Exponents.	Expressions, Equations and Relationships: 6.7A; 6.8C, D
Activity 10	Collecting & Graphing Data	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C, D; 6.13A, B
Activity 11	Displaying Data: Histograms	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C, D; 6.13A, B

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Texas 6th Grade TEKS /
Excel Math Correlation by Lesson Number

Lesson (Activity) Number	Excel Math Lesson Objective	Texas Essential Knowledge and Skills
Activity 12	Displaying Data: Dot Plots	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C, D; 6.13A, B
Activity 13	Displaying Data: Box Plots	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C, D; 6.13A, B
Activity 14	Balancing a Checkbook	Mathematical Process Standards: 6.1A-G; Personal Financial Literacy: 6.14*A, C, D
Activity 15	Data Using Charts: Unit Rate	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.13A, B
Activity 16	Mean Absolute Deviation	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C; 6.13A, B
Activity 17	Interquartile Range	Mathematical Process Standards: 6.1A-G; Measurement and Data: 6.12A, B, C; 6.13A, B
Activity 18	Unit Rate, Speed, Range & Velocity	Mathematical Process Standards: 6.1A-G; Number and Operations: 6.3C, D, E; Proportionality 6.4A, B, C, D, H; 6.5A

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