Standards for Mathematical Practice

and Excel Math for Grade 2

The Common Core State Standards for Mathematical Practice are integrated into Excel Math lessons. Below are some examples of how we include these Practices into the tasks and activities your students will complete throughout the year.

Mathematical Practices

- **1. Make sense and persevere in solving problems.** Mathematically proficient students examine problems and tasks, can make sense of the meaning of the task and find an entry point or a way to start the task. Second Grade students also develop a foundation for problem solving strategies and become independently proficient on using those strategies to solve new tasks. In Second Grade, students' work continues to use concrete manipulatives and pictorial representations as well as mental mathematics. They complete a task by asking, "Does this make sense?"
- **2. Reason abstractly and quantitatively.** Mathematically proficient students make sense of quantities and relationships while solving tasks. This involves two processes—decontextualizing and contextualizing. In Second Grade, students represent situations by decontextualizing tasks into numbers and symbols. The processes of reasoning also impact other areas of mathematics such as determining the length of quantities when measuring with standard units.
- **3. Construct viable arguments and critique the reasoning of others.** In Second Grade, mathematically proficient students accurately use definitions and previously established solutions to construct viable arguments about mathematics. During discussions about problem-solving strategies, students constructively critique the strategies and reasoning of their classmates. For example, while solving 74 18, students may use a variety of strategies, and after working on the task, can discuss and critique each others' reasoning and strategies.
- **4. Model with mathematics.** Mathematically proficient students model real-life mathematical situations with a number sentence or an equation, and check to make sure that their equation accurately matches the problem context. Second grade students use concrete manipulatives and pictorial representations to provide further explanation of the equation. Likewise, Second Grade students are able to create an appropriate problem situation from an equation. For example, students are expected to create a story problem when given an equation.
- **5. Use appropriate tools strategically.** In Second Grade, mathematically proficient students have access to and use tools appropriately. These tools may include snap cubes, place value (base ten) blocks, hundreds number boards, number lines, rulers, and concrete geometric shapes (e.g., pattern blocks, 3-D solids). For example, while measuring the length of the hallway, students can explain why a yardstick is more appropriate to use than a ruler.
- **6. Attend to precision.** Mathematically proficient students communicate clearly, using grade-level appropriate vocabulary accurately as well as giving precise explanations and reasoning regarding their process of finding solutions. For example, while measuring an object, care is taken to line up the ruler correctly in order to get an accurate measurement.
- **7. Look for and make use of structure.** In Second Grade, mathematically proficient students carefully look for patterns and structures in the number system and other areas of mathematics. For example, students notice number patterns within the tens place as they connect skip counting by 10s the corresponding numbers on a 100s chart.
- **8. Look for and express regularity in repeated reasoning.** Mathematically proficient students begin to look for regularity in problem structures when solving mathematical tasks. For example, after solving two-digit addition problems by decomposing numbers (33 + 25 = 30 + 20 + 3 + 5), students may begin to generalize and apply that strategy independently on future tasks.

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Standards / Objectives

Excel Math Lesson Numbers

Stretch Lesson Numbers
Activity Numbers

Operations and Algebraic Thinking

Represent and solve problems involving addition and subtraction.

1. Use addition and subtraction within 100 to solve one- and two-step word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

11, 27, 30, 33, 38, 40, 43, 52, 56, 57, 58, 66, 71, 72, 77, 81, 97, 102, 103, 104, 109, 111, 113, 114, 115, 117, 125, 130, 134, 136, 153

Multiplication: 95, 125, 131

Division: 113, 114, 115, 127, 128, 136, 153, 154

21, 22, 26, 30, 31, 33, 35, 37, 38, 39, 40, 41, 42, 43, 45, 46, 47, 49, 51, 52, 56, 57, 58, 60, 61, 63, 65, 67, 68, 69, 70, 71, 72, 75, 76, 79, 80, 82, 83, 86, 87, 90, 93, 95, 97, 99, 100, 101, 108, 109, 110, 114, 117, 118, 121, 123, 125, 126, 130, 131, 132, 133, 134, 136, 140, 142, 146, 147, 150, 151, 152, 153, 154

Activity 12, 14

Multiplication: 119, 155

Add and subtract within 20.

2. Fluently add and subtract within 20 using mental strategies. By end of Grade 2, know from memory all sums of two one-digit numbers.

1, 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 28, 31, 34, 36, 38, 40, 41, 43, 44, 46, 48, 51, 52, 53, 54, 56, 57, 58, 59, 61, 62, 64, 66, 67, 68, 69, 70, 75, 76, 77, 79, 81, 82, 83, 84, 87, 90, 92, 95, 97, 98, 99, 101, 102, 103, 106, 107, 108, 109, 111, 112, 113, 114, 115, 116, 117, 119, 125, 126, 130, 131, 133, 136, 137, 138, 140, 141, 145, 146, 147, 148, 153

Multiply: 108, 121, 131, 132, 133, 134, 137, 138, 139, 140, 141, 142, 144, 146, 147, 148, 149, 152, 154

Divide: 136, 137, 147, 152, 153, 154

21, 22, 26, 31, 33, 38, 39, 41, 42, 45, 46, 47, 51, 52, 56, 57, 58, 60, 61, 65, 67, 68, 70, 71, 72, 75, 76, 79, 80, 83, 87, 90, 95, 96, 97, 99, 100, 101, 108, 109, 110, 114, 117, 118, 121, 123, 125, 126, 130, 131, 132, 134, 140, 142, 146, 147, 150, 151, 152, 153, 154

Activity 11, 12, 14

Multiply: 119, 125, 143, 147, 155

Work with equal groups of objects to gain foundations for multiplication.

3. Determine whether a group of objects (up to 20) has an odd or even number of members, e.g., by pairing objects or counting them by 2s; write an equation to express an even number as a sum of two equal addends.

*54, *56, *67, *70, 77, *87, *88, 99, 105, 111, 113, 114, 115, 136, 153

Ordinals: 7, 76

115, 128

4. Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.

9, 13, 16, 22, 23, 24, 31, 39, 42, 46, 49, 51, 54, 56, 59, 67, 71, 72, 73, 82, 88, 90, 91, 94, 106, 107, 111, 116, 118, 122, 123, 129, 136, 145

Activity 11, 14



Standards / Objectives

Excel Math **Lesson Numbers** **Stretch Lesson Numbers Activity Numbers**

Number and Operations in Base Ten			
Understand place value.			
1. Understand that the three digits of a three-digit number reprehundreds, 0 tens, and 6 ones. Understand the following as		nes; e.g., 706 equals 7	
a. 100 can be thought of as a bundle of ten tens — called a "hundred."	91, 106, 107, 116, 123, 129, 139, 145, 146, 148		
b. The numbers 100, 200, 300, 400, 500, 600, 700, 800, 900 refer to one, two, three, four, five, six, seven, eight, or nine hundreds (and 0 tens and 0 ones).	17, 24, 28, 33, 38, 91, 92, 94, 106, 123, 129, 139, 145, 146, 148		
2. Count within 1000; skip-count by 5s, 10s, and 100s.	16, 18, 31, 37, 43, 46, 47, 54, 59, 64, 71, 72, 73, 74, 75, 82, 87, 88, 91, 93, 94, 106, 107, 116, 118, 122, 123, 129, 141, 145	25, 32, 42, 97, 151 Activity 12	
	By 1s: 2, 6, 18, 26 By 2s: 70, 87, 105		
3. Read and write numbers to 1000 using base-ten numerals, number names, and expanded form.	2, 14, 17, 25, 28, 33, 38, 41, 59, 64, 71, 72, 73, 74, 82, 88, 91, 92, 94, 106, 107, 109, 122, 123, 129, 139, 144, 145, 146, 148		
4. Compare two three-digit numbers based on meanings of the hundreds, tens, and ones digits, using >, =, and < symbols to record the results of comparisons.	142, *145, *148 Objects 3, 6 One / Two-digit 12, 14, 61, 73, 112 Equations 124		
Use place value understanding and properties of oper	ations to add and subtract.		
5. Fluently add and subtract within 100 using strategies based on place value, properties of operations, and/or the relationship between addition and subtraction.	1, 6, 9, 13, 14, 16, 20, 21, 22, 23, 24, 25, 28, 36, 39, 42, 43, 48, 51, 56, 59, 67, 71, 72, 73, 75, 76, 77, 82, 86, 88, 94, 101, 107, 108, 111, 113, 114, 115, 118, 130, 136, 141, 153 Multiply: 108, 121, 125, 131, 137, 141	Activity 11, 12, 14	



Standards / Unioctivos		Lesson Numbers ivity Numbers
6. Add up to four two-digit numbers using strategies based on place value and properties of operations.	11, 16, 21, 22, 23, 24, 25, 31, 34, 39, 42, 43, 46, 49, 51, 54, 59, 68, 71, 72, 73, 75, 76, 81, 82, 86, 88, 92, 94, 104, 107, 118, 133, 141, 147 Three-digit: 106, 116, 129, 133, 139, 145, 146	40, 49, 82, 87, 104, 128, 133, 136, 150, 153
7. Add and subtract within 1000, using concrete models or drawings and strategies based on place value, properties of operations, and/or the relationship between addition and subtraction; relate the strategy to a written method. Understand that in adding or subtracting three-digit numbers, one adds or subtracts hundreds and hundreds, tens and tens, ones and ones; and sometimes it is necessary to compose or decompose tens or hundreds.	1, 4, 6, 9, 11, 13, 16, 20, 23, 24, 25, 39, 42, 46, 48, 51, 56, 59, 67, 71, 72, 73, 76, 77, 82, 88, 94, 106, 107, 109, 113, 116, 122, 129, 133, 139	
8. Mentally add 10 or 100 to a given number 100–900, and mentally subtract 10 or 100 from a given number 100–900.	9, 13, 16, 22, 23, 24, 49, 51, 59, 71, 72, 73, 75, 82, 88, 94, 106, 107, 118, 122, 129, 141	104, 151 Activity 12
Explain why addition and subtraction strategies work, using place value and the properties of operations.	1, 4, 6, 9, 11, 13, 16, 22, 23, 24, 28, 32, 40, 42, 43, 48, 49, 51, 56, 59, 67, 71, 72, 73, 75, 77, 82, 88, 94, 101, 106, 107, 108, 118, 122, 129	104, 151 Activity 11, 12
Measureme	nt and Data	
Measure and estimate lengths in standard units.		
Measure the length of an object by selecting and using appropriate tools such as rulers, yardsticks, meter sticks, and measuring tapes.	35, 55, 60, 65, 84, 85, 132	Weight: 100, Activity 1, 2(1-5), 5
2. Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen.	35, 55, 60, 65, 84, 85, 132	Activity 1, 2(1-5), 5
3. Estimate lengths using units of inches, feet, centimeters, and meters.	35, *55, *65, 84, 85, 132	Activity 1, 2(1-5), 5
4. Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit.	35, 55, 60, 65, 84, 85, *132	53 Activity 1, 2(1-5), 5



Standards / Objectives		Lesson Numbers ivity Numbers
Relate addition and subtraction to length.		
5. Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawings of rulers) and equations with a symbol for the unknown number to represent the problem.	55, 60, 65, 81, 84, 85	53 Activity 1, 2(1-5), 5
6. Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers 0, 1, 2,, and represent whole-number sums and differences within 100 on a number line diagram.	Numbers as lengths on a number line: 4, 13, 14, 37, 42, 48, 56, 67 Sums & differences on a number line: 4, 13, 40, 42, 48, 56, 67 Other Measuring devices: 53	
Work with time and money.		
7. Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.	19, 29, 44, 45, 62, 69, 89, 98, 134, 143	44, 89
8. Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and \(\epsilon \) symbols appropriately. Example: If you have 2 dimes and 3 pennies, how many cents do you have?	32, 43, 66, 79, 83, 86, 109, 119, 149 Decimal algorithms: 79, 86, 138, 140	72 Activity 8
Represent and interpret data.		
9. Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units.	35, *84, *85 Other Measuring devices: 53	Activity 5
10. Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put together, take-apart, and compare problems using information presented in a bar graph.	5, 15, 35, 50, 55, 105	40, 49, 55, 133 Activity 3, 4



Stretch Lesson Numbers

Excel Math

Standards / Objectives		Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
	Ge	eometry	
Reason with shapes and their attributes.			
Recognize and draw shapes having specified attributes, such as a given number of angl given number of equal faces. Identify tria quadrilaterals, pentagons, hexagons, and compared to the state of	les or a angles,	8, 10, 36, 63, 78, 80, 90, 96, 101, 110, 135, 144, 150, 155	23, 24, 27, 34, 36, 62, 66, 74, 77, 85, 92, 94, 103, 105, 112, 127, 129, 138, 139, 144
Partition a rectangle into rows and columns of same-size squares and count to find the to number of them.	of	63, 80, 90, 96, 150, 155	Activity 9, 10, 13 *23, 24, 34, 36, 62, 74, 85, 92, 94, 103, 105, 112, 127, 129, 138, 139, 144
3. Partition circles and rectangles into two, thre four equal shares, describe the shares usin words halves, thirds, half of, a third of, et describe the whole as two halves, three the four fourths. Recognize that equal shares identical wholes need not have the same s	ng the c., and airds, of	63, 80, 96, 120, 126, 136, 150, 155 Objects: 77, 127, 128	Activity 6, 7, 13 *23, 24, 34, 36, 62, 74, 85, 92, 94, 103, 105, 127, 129, 138, 139, 144 Activity 6, 7, 13
Math	ema	tical Practices	
Make sense of problems and persevere in solving them.	77, 81, 109, 11	25, 27, 30, 33, 35, 40, 50, 57, 66, 83, 90, 95, 97, 100, 102, 103, 104, 3, 117, 119, 125, 127, 128, 130, 44, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8
2. Reason abstractly and quantitatively.	77, 81, 109, 11	25, 27, 30, 33, 35, 40, 50, 57, 66, 83, 90, 95, 97, 100, 102, 103, 104, 3, 117, 119, 125, 127, 128, 130, 44, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8



	Standards / Objectives	Excel Math S Lesson Numbers	Stretch Lesson Numbers Activity Numbers
3.	Construct viable arguments and critique the reasoning of others.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8
4.	Model with mathematics.	5, 25, 27, 35, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 132, 134, 143, 153, 154	28, 29, 30, 35, 37, 42, 43, 47, 50, 53, 55, 58, 63, 67, 71, 72, 76, 79, 83, 86, 90, 93, 97, 99, 100, 108, 110, 115, 117, 118, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 146, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8
5.	Use appropriate tools strategically.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8
6.	Attend to precision.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8



Geometry - Symmetry

2nd Grade Common Core Standards / Excel Math Correlation

	Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
7.	Look for and make use of structure.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8
8.	Look for and express regularity in repeated reasoning.	5, 15, 25, 27, 30, 33, 35, 40, 50, 57, 66, 77, 81, 83, 90, 95, 97, 100, 102, 103, 104, 109, 113, 117, 119, 125, 127, 128, 130, 132, 134, 143, 153, 154	29, 30, 35, 37, 42, 43, 44, 47, 48, 50, 53, 54, 55, 58, 59, 63, 64, 67, 69, 71, 72, 73, 76, 78, 79, 83, 84, 86, 88, 89, 90, 93, 97, 98, 99, 100, 102, 107, 108, 110, 111, 115, 116, 117, 118, 120, 121, 123, 124, 126, 128, 131, 132, 136, 140, 142, 145, 146, 148, 150, 151, 153, 154 Activity 1, 2, 3, 4, 8

The following are concepts not required by the CCS but are lessons in Excel Math.

Alternate Common Core Lessons and Activities are provided in the Teacher Edition:

Lesson	Stretch
25, 100	
35	50, 81
130	29, 35, 53, 69, 73, 88, 102, 106, 107, 111, 116, 120, 122, 135, 141, 145
40	44, 48, 54, 59, 64, 78, 84, 89, 91, 98, 113, 148, 149
96, 101	
102	
Weight: 60 Volume: 65 Perimeter: 132 Calendar / Months: 134, 151	
	25, 100 35 130 40 96, 101 102 Weight: 60 Volume: 65

75



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L1	Learning the addition and subtraction facts up through nine	Operations / Algebraic 2 Number / Operations Base Ten 5, 7, 9
L2	Filling in missing numbers when counting by one (zero through nine)	Operations / Algebraic 2 Number / Operations Base Ten 3
L3	Evaluating numbers using the words <i>most</i> , <i>least</i> , <i>greatest value</i> and <i>least value</i>	Operations / Algebraic 2
L4	Adding 3 one-digit numbers	Operations / Algebraic 2 Number / Operations Base Ten 7, 9
L5	Interpreting tally charts	Measurement / Data 10 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L6	Calculating a number 1 more or less than a given number	Operations / Algebraic 2 Number / Operations Base Ten 5, 7, 9
L7	Recognizing the ordinals <i>first</i> through <i>fifth</i>	Operations / Algebraic 2
L8	Recognizing the shapes - circles, triangles, squares and rectangles	Operations / Algebraic 2 Geometry 1
L9	Learning the addition facts of ten and eleven	Operations / Algebraic 2, 4 Number / Operations Base Ten 5, 7, 8, 9
L10	Reasoning using overlapping figures	Geometry 1
L11	Adding and subtracting a two-digit and a one-digit number; and calculating a number 1 more or less than a given number	Operations / Algebraic 1, 2 Number / Operations Base Ten 6, 7, 9
L12	Recognizing the symbols and terms < <i>less</i> than, > greater than, = equal	Operations / Algebraic 2
L13	Learning the subtraction facts of 10 and 11	Operations / Algebraic 2, 4 Number / Operations Base Ten 5, 7, 8, 9
L14	Putting 3 two-digit numbers in order	
L15	Interpreting information given in <i>picture</i> graphs	Measurement / Data 10 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L16	Adding and subtracting 2 two-digit numbers; and adding 3 one-digit numbers with a sum less than twenty	Operations / Algebraic 2, 4 Number / Operations Base Ten 2, 5, 6, 7, 8
L17	Recognizing the words for numerals - zero through ten	Operations / Algebraic 2 Number / Operations Base Ten 1b, 3
L18	Filling in missing numbers when counting up to and <i>crossing a ten</i>	Operations / Algebraic 2
L19	Telling time by the hour on an analog clock	Operations / Algebraic 2 Measurement / Data 7
L20	Recognizing addition and subtraction fact families	Operations / Algebraic 2 Number / Operations Base Ten 5
L21	Adding 3 one-digit numbers horizontally	Operations / Algebraic 2
L22	Regrouping using the facts of ten when adding a two-digit and a one-digit number	Operations / Algebraic 2, 4 Number / Operations Base Ten 5, 6, 8
L23	Continued - Regrouping using the facts of ten when adding a two-digit and a one-digit number	Operations / Algebraic 2, 4 Number / Operations Base Ten 5, 6, 7, 8, 9



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L24	Recognizing the words twenty, thirty, forty and fifty	Operations / Algebraic 2, 4 Number / Operations Base Ten 1b, 5, 6, 7, 8, 9
L25	Determining <i>probability</i> using a spinner	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L26	Filling in missing numbers when counting down and crossing a ten	Operations / Algebraic 2
L27	Solving story problems using a five-step process using addition and subtraction	Operations / Algebraic 1 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L28	Recognizing the words <i>eleven</i> , <i>twelve</i> , <i>thirteen</i> and <i>fourteen</i> ; learning addition facts of 12 and 13	Operations / Algebraic 2 Number / Operations Base Ten 1b, 3, 5, 9
L29	Recognizing <i>half past</i> on the clock	Measurement / Data 7
L30	Evaluating information to see if it is <i>sufficient</i> to answer the question	Operations / Algebraic 1 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L31	Regrouping when adding 2 two-digit numbers using the sums of ten	Operations / Algebraic 2, 4 Number / Operations Base Ten 6
L32	Continued - Regrouping when adding 2 two-digit numbers using the sums of ten	Operations / Algebraic 2, 4 Number / Operations Base Ten 2, 5, 6, 8, 9
L33	Recognizing the words <i>sixty</i> , <i>seventy</i> , <i>eighty</i> and <i>ninety</i> ; solving word problems when there are no calculations	Operations / Algebraic 1 Number / Operations Base Ten 1b, 3 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L34	Adding 3 two-digit numbers without regrouping	Operations / Algebraic 2 Number / Operations Base Ten 6
L35	Interpreting <i>pie graphs</i> ; calculating possible outcomes	Measurement / Data 10 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L36	Learning the addition facts of 14 and 15; learning a square is also a rectangle	Operations / Algebraic 2 Number / Operations Base Ten 5 Geometry 1
L37	Recognizing by what number a sequence is counting	Number / Operations Base Ten 2
L38	Recognizing the words <i>fifteen</i> , <i>sixteen</i> , <i>seventeen</i> , <i>eighteen</i> and <i>nineteen</i> ; filling in a missing number in a number sentence involving addition	Operations / Algebraic 1, 2 Number / Operations Base Ten 1b, 3
L39	Regrouping using the addition facts of eleven	Operations / Algebraic 4 Number / Operations Base Ten 5, 6, 7
L40	Putting a series of events in order	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L41	Recognizing any number less than 100	Operations / Algebraic 2 Number / Operations Base Ten 3
L42	Learning the subtraction facts of 12 and 13	Operations / Algebraic 4 Number / Operations Base Ten 5, 6, 7
L43	Recognizing the coins - quarter, dime, nickel and penny	Operations / Algebraic 2 Measurement / Data 8
L44	Learning the days of the week	Operations / Algebraic 2 Measurement / Data 7
L45	Recognizing a <i>quarter to</i> and a <i>quarter</i> past the hour	Measurement / Data 7
L46	Adding 3 two-digit numbers with regrouping	Operations / Algebraic 2, 4 Number / Operations Base Ten 2, 6, 7



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L47	Filling in missing numbers when counting by 5 or 10	Number / Operations Base Ten 2
L48	Learning the addition facts of 16, 17 and 18	Operations / Algebraic 2 Number / Operations Base Ten 5, 7, 9
L49	Regrouping using the addition facts of 12	Operations / Algebraic 4, 6 Number / Operations Base Ten 8, 9
L50	Interpreting information from bar graphs	Measurement / Data 10 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L51	Continued - Regrouping using the addition facts of 12; adding 4 one-digit numbers	Operations / Algebraic 2, 4 Number / Operations Base Ten 5, 6, 7, 8, 9
L52	Filling in a missing number in a number sentence involving addition	Operations / Algebraic 1, 2
L53	Reading scales and other measuring devices	Operations / Algebraic 2
L54	Grouping items by tens	Operations / Algebraic 2, *3, 4 Number / Operations Base Ten 2, 6
L55	Learning the names for units of <i>length</i> (<i>inch</i> , <i>foot</i> , <i>yard</i> , <i>centimeter</i> , <i>meter</i> , <i>kilometer</i>)	Measurement / Data 1, 2, 3, 4
L56	Learning the subtraction facts of 14 and 15	Operations / Algebraic 1, 2, *3, 4 Number / Operations Base Ten 5, 7, 9
L57	Solving story problems with <i>extraneous information</i> and the phrase <i>more than</i>	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L58	Filling in a missing number in a number sentence involving subtraction	Operations / Algebraic 1, 2
L59	Regrouping using the addition facts of 13	Operations / Algebraic 4 Number / Operations Base Ten 2, 5, 6, 7, 8, 9
L60	Learning the names for units of weight (ounce, pound, ton, gram, kilogram)	
L61	Putting four numbers in order from <i>least</i> to greatest	Operations / Algebraic 2
L62	Telling time by 5 minutes	Operations / Algebraic 2 Measurement / Data 7
L63	Solving <i>fractional part</i> problems modeled with shading and figures	Geometry 1, 2, 3
L64	Writing numbers that are represented in units of tens and ones	Operations / Algebraic 2 Number / Operations Base Ten 2, 3
L65	Learning the names for units of <i>volume</i> (<i>cup</i> , <i>pint</i> , <i>quart</i> , <i>gallon</i> , <i>liter</i>)	
L66	Solving story problems involving money	Operations / Algebraic 1, 2 Measurement / Data 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L67	Learning the subtraction facts of 16, 17, and 18	Operations / Algebraic 2, *3, 4 Number / Operations Base Ten 5, 7, 9
L68	Regrouping using the addition facts of 14	Operations / Algebraic 2 Number / Operations Base Ten 6
L69	Telling time to the minute	Operations / Algebraic 2



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L70	Filling in a missing number when counting by two	Operations / Algebraic 2, *3 Measurement / Data 7
L71	Regrouping using subtraction facts of 10 when subtracting a one-digit from a two-digit number	Operations / Algebraic 1, 4 Number / Operations Base Ten 2, 3, 5, 6, 7, 8, 9
L72	Continued - Regrouping using subtraction facts of 10 when subtracting a one-digit from a two-digit number	Operations / Algebraic 1, 4 Number / Operations Base Ten 2, 3, 5, 6, 7, 8, 9
L73	Putting 4 two-digit numbers in order from greatest to least	Operations / Algebraic 4 Number / Operations Base Ten 2, 3, 5, 6, 7, 8, 9
L74	Learning about ones and tens pieces	Number / Operations Base Ten 2, 3
L75	Recognizing lines of symmetry	
L76	Regrouping using the addition facts of 15, 16, 17, and 18; recognizing ordinals <i>sixth</i> through <i>tenth</i>	Operations / Algebraic 2 Number / Operations Base Ten 5, 6, 7
L77	Calculating one-half of a group of up to 10 things; even and odd numbers	Operations / Algebraic 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L78	Recognizing shapes with common characteristics	Geometry 1
L79	Recognizing the <i>dollar symbol</i> and <i>decimal</i> ; adding and subtracting money amounts	Operations / Algebraic 2
L80	Selecting the correct fraction; defining numerator and denominator	Geometry 2, 3
L81	Solving story problems involving the <i>comparative</i> words "less than" and "greater than"	Operations / Algebraic 1, 2 Number / Operations Base Ten 6 Measurement / Data 5 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L82	Regrouping when subtracting a two-digit number from a two-digit number using subtraction facts of 10	Operations / Algebraic 2, 4 Number / Operations Base Ten 2, 3, 5, 6, 7, 8, 9
L83	Learning <i>change equivalents</i> for a quarter, dime and nickel.	Operations / Algebraic 2 Measurement / Data 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L84	Measuring a <i>line segment</i> to the nearest inch	Operations / Algebraic 2 Measurement / Data 1, 2, 3, 4, *5, *6, *9
L85	Measuring a <i>line segment</i> to the nearest centimeter	Measurement / Data 1, 2, 3, 4, *5, *6, *9
L86	Adding and subtracting money amounts horizontally	
L87	Filling in missing numbers when counting by two and <i>crossing a ten</i>	Operations / Algebraic 2, *3
L88	Regrouping using the subtraction facts of 11	Operations / Algebraic *3, 4 Number / Operations Base Ten 2, 3, 5, 6, 7, 8, 9
L89	Calculating the minutes before an hour	Measurement / Data 7



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L90	Computing the area of a plane figure given in square units	Operations / Algebraic 2 Geometry 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L91	Recognizing the hundreds place	Operations / Algebraic 4 Number / Operations Base Ten 1a, 1b, 2, 3
L92	Recognizing any number to 999; not having zeros; adding and subtracting two three-digit numbers	Operations / Algebraic 2 Number / Operations Base Ten 1b, 3, 6
L93	Recognizing a sequence counting by ten (23, 33, 43, 53)	Number / Operations Base Ten 2
L94	Regrouping using the subtraction facts of 12 and 13	Operations / Algebraic 4 Number / Operations Base Ten 1b, 2, 3, 5, 6, 7, 8, 9
L95	Solving multiplication word problems using models and pictures	Operations / Algebraic 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L96	Recognizing patterns of shading	Geometry 1, 2, 3
L97	Calculating a number more or less than a given number; solving addition and subtraction problems given in words	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L98	Telling time within so many hours, on the hour	Operations / Algebraic 2 Measurement / Data 7
L99	Recognizing <i>odd</i> and <i>even</i> numbers, up to 10	Operations / Algebraic 2, 3
L100	Calculating probability from <i>possible</i> outcomes	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L101	Completing a pattern of shapes	Operations / Algebraic 2 Geometry 1
L102	Learning the <i>order of operations</i> when <i>parentheses</i> are involved	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L103	Performing a calculation and then filling in a missing number in a number sentence	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L104	Solving two-step word problems	Operations / Algebraic 1 Number / Operations Base Ten 6 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L105	Counting by two when interpreting information in picture graphs	Operations / Algebraic 3 Measurement / Data 10
L106	Regrouping to the tens place when adding 2 three-digit numbers	Operations / Algebraic 2, 4 Number / Operations Base Ten 1a, 2, 3, 7, 8, 9
L107	Regrouping with subtraction facts of 14 and 15.	Operations / Algebraic 2, 4 Number / Operations Base Ten 1a, 2, 3, 5, 6, 7, 8, 9
L108	Learning the <i>multiplication facts</i> with products up to 10 and products with two as a factor	
L109	Recognizing money number words (<i>cents</i> and <i>dollar</i>); writing change with a \$ and a decimal	Operations / Algebraic 1, 2 Number / Operations Base Ten 3, 7 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L110	Recognizing three-dimensional figures	Geometry 1



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L111	Recognizing odd and even numbers up to 20; calculating one-half of a group up to 20	Operations / Algebraic 2 Geometry 3
L112	Discerning true number sentences using < less than, > greater than, = equal and Ł not equal; defining the term equation	Operations / Algebraic 2
L113	Solving division story problems by selecting the correct model	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L114	Continued - Solving division story problems by selecting the correct model	Operations / Algebraic 2 Geometry 3
L115	Learning division facts with dividends up to 14 by dividing into equal parts	Geometry 3
L116	Regrouping with the tens place when subtracting 2 three-digit numbers	Operations / Algebraic 2, 4 Number / Operations Base Ten 1a, 2, 7
L117	Selecting the correct equation when given a story problem	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L118	Regrouping with subtraction using subtraction facts of 16, 17 and 18; adding 4 two-digit numbers	Operations / Algebraic 4 Number / Operations Base Ten 2, 5, 6, 8, 9
L119	Recognizing a <i>half dollar</i> ; learning which coins to use to buy something	Operations / Algebraic 2 Measurement / Data 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L120	Learning that the <i>whole</i> is the <i>sum of its</i> parts	Geometry 3
L121	Learning the multiplication facts with products using 5 as a factor	
L122	Regrouping with the hundreds place when adding	Operations / Algebraic 4 Number / Operations Base Ten 2, 3
L123	Solving <i>place value</i> problems with a zero in the tens or ones place	Operations / Algebraic 4 Number / Operations Base Ten 1a, 1b, 2, 3, 7, 8, 9
L124	Using pairs of numbers in < less than, > greater than, and = equal to problems	
L125	Learning to solve word problems using multiplication	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L126	Learning to match numbers with fractional parts of a circle	Operations / Algebraic 2 Geometry 3
L127	Learning to solve word problems involving division when given pictures	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L128	Continued - Learning to solve word problems involving division when given pictures	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L129	Regrouping only with the hundreds place when subtracting	Operations / Algebraic 4 Number / Operations Base Ten 1a, 1b, 2, 3, 7, 8, 9
L130	Using <i>deductive reasoning</i> to solve a story problem	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L131	Learning the multiplication facts with products up to 20	Operations / Algebraic 2



Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L132	Calculating <i>perimeters</i> to the nearest inch or centimeter	Measurement / Data 1, 2, 3, 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L133	Regrouping twice when adding 2 three- digit numbers; adding 3 three-digit numbers, regrouping once	Operations / Algebraic 2 Number / Operations Base Ten 6, 7
L134	Calculating the date within one week going forward	Operations / Algebraic 1 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L135	Learning to recognize flips, turns and slides	Geometry 1
L136	Learning division facts with dividends up to 20	
L137	Recognizing multiplication and division families	Operations / Algebraic 2
L138	Regrouping when adding or subtracting money amounts	Operations / Algebraic 2
L139	Regrouping twice when subtracting 2 three-digit numbers	Number / Operations Base Ten 7
L140	Regrouping twice when subtracting money amounts	Operations / Algebraic 2
L141	Learning the multiplication facts with products less than 100 and with 10 or 11 as a factor	Operations / Algebraic 2
L142	Evaluating three-digit numbers in < and > problems and <i>put-in-order problems</i>	Number / Operations Base Ten 4
L143	Telling time within so many hours, off the hour	Measurement / Data 7 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L144	Learning to recognize when figures are similar or congruent	Number / Operations Base Ten 3 Geometry 1
L145	Subtracting three-digit numbers, regrouping twice, when there is a 1 or 0 in the tens place	Operations / Algebraic 2, 4 Number / Operations Base Ten 1a, 1b, 2
L146	Regrouping twice when adding 3 three-digit numbers	Operations / Algebraic 2
L147	Adding 3 or 4 one-digit numbers where the sum is greater than 19 and less than 30	Operations / Algebraic 2
L148	Recognizing any number up to 999	Operations / Algebraic 2 Number / Operations Base Ten 1b, 3
L149	Learning the <i>dollar equivalents</i> for half dollars, quarters and dimes	Measurement / Data 8
L150	Adding and subtracting fractions	Geometry 1, 2, 3
L151	Recognizing the names of the months of the year	<u> </u>
L152	Learning <i>division facts</i> when the dividend is a multiple of 5	
L153	Learning to solve word problems involving division	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L154	Continued - Learning to solve word problems involving division	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L155	Recognizing equivalent fractions in pictures	Geometry 1, 2, 3



Lesson (Activity)	Excel Math Lesson Objective	Common Core Standard
Number	1 Wil and Manager Lord with	
Measurement Activity-	1 - Volume – Non-standard units 2 - Volume – Non-standard units	
Volume	3 – Volume – Ron-standard units	
voiume	4 – Volume – Cups & quarts	
	5 – Volume – Cups & quarts	
	6 – Volume – Pints & quarts	
	7– Volume – Pints & gallons	
	8- Volume - Cups & liters	
Measurement	1 – Weight – Non-standard units	
Activity-	2 – Weight – Non-standard units	
Weight	3 – Weight – Ounces	
11 01811	4 – Weight – Pounds	
	5 – Weight – Pounds	
	6 – Weight – Kilograms	
	7– Weight – Pounds & kilograms	
Measurement	1 – Distance – Non-standard	Measurement / Data 1, 2, 3, 4, 5, 9, 10
Activity-	2 – Distance – Non-standard	
Distance	3 – Distance – Length - Inches	
	4 – Distance – Length - Centimeters	
	5 – Distance – Length – Inches and	
	centimeters	
	6 – Distance – Length – Feet, yards,	
	meters	
Activity 1	Probability Grid	Measurement / Data 10
		Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 2	Fractional Parts	Geometry 1, 2, 3
		Mathematical Practices 4
Activity 3	Deductive Reasoning	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 4	Asking Questions	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
Activity 5	Deductive Reasoning	Geometry 3
		Mathematical Practices 4
Activity 6	Scheduling Teams	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
Activity 7	Strength of Figures	
Activity 8	Facts and Opinions	Measurement / Data 10
		Mathematical Practices 4
Activity 9	Balancing Scales	Geometry 1
Activity 10	Advertising Information	Geometry 1
		Mathematical Practices 1, 2, 3, 5, 6, 7, 8
Activity 11	Lines of Symmetry	Measurement / Data 1
		Mathematical Practices 4
Activity 12	Strength of Figures	Geometry 1
Activity 13	Pieces on a Grid	Geometry 1, 2, 3
Activity 14	Frogs on a Pad	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8