

Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers Exercise Numbers
<b>Operations and Algebraic Thinking</b>		
<b>Represent and solve problems involving addition and subtraction.</b>		
1. Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	14, 15, 18, 22, 29, 30, 31, 37, 45, 66, 67, 77, 85, 100, 101, 103, 111, 117, 129, 137	18, 27, 31, 69, 92  Exercise 3, 8
2. Solve word problems that call for addition of three whole numbers whose sum is less than or equal to 20, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.	32, 64, 99, 114, 139, 142, 149	69, 92  Exercise 3, *8
<b>Understand and apply properties of operations and the relationship between addition and subtraction.</b>		
3. Apply properties of operations as strategies to add and subtract.3 Examples: If $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known. (Commutative property of addition.) To add $2 + 6 + 4$ , the second two numbers can be added to make a ten, so $2 + 6 + 4 = 2 + 10 = 12$ . (Associative property of addition.)	71, 72, 88, 89, 93, 106, 116	73, 123
4. Understand subtraction as an unknown-addend problem. For example, subtract $10 - 8$ by finding the number that makes 10 when added to 8.	38, 39, 44, 57, 58, 67, 71, 74, 79, 88, 89, 93, 100, 101, 106, *111, 117, *137	127
<b>Add and subtract within 20.</b>		
5. Relate counting to addition and subtraction (e.g., by counting on 2 to add 2).	14, 28, 29, 31, 34, 42, 43, 69, 72, 78, 79, 82, 86, 90, 112, 124, 126, 129, 133, 144, 147  Odd / Even: 131	131  Exercise 1

\*Gives opportunity to teach specific Standard

Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers Exercise Numbers
6. Add and subtract within 20, demonstrating fluency for addition and subtraction within 10. Use strategies such as counting on; making ten (e.g., $8 + 6 = 8 + 2 + 4 = 10 + 4 = 14$ ); decomposing a number leading to a ten (e.g., $13 - 4 = 13 - 3 - 1 = 10 - 1 = 9$ ); using the relationship between addition and subtraction (e.g., knowing that $8 + 4 = 12$ , one knows $12 - 8 = 4$ ); and creating equivalent but easier or known sums (e.g., adding $6 + 7$ by creating the known equivalent $6 + 6 + 1 = 12 + 1 = 13$ ).	14, 15, 18, 22, 29, 30, 31, 33, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 46, 47, 51, 53, 54, 56, 57, 58, 61, 63, 66, 67, 68, 70, 71, 72, 74, 78, 79, 81, 83, 84, 86, 88, 89, 91, 92, 93, 96, 97, 103, 106, 109, 110, 113, 116, 118, 126, 127, 128, 133, 141, 143, 146, 149	18, 26, 31, 58, 73, 117, 118, 123, 127  Exercise 3
<b>Work with addition and subtraction equations.</b>		
7. Understand the meaning of the equal sign, and determine if equations involving addition and subtraction are true or false. For example, which of the following equations are true and which are false? $6 = 6$ , $7 = 8 - 1$ , $5 + 2 = 2 + 5$ , $4 + 1 = 5 + 2$ .	7, 38, 45, 57, 60, 66, 67, 72, 78, 79, 85, 89, 92, 101, 103, 104, 122, 123, 127, 141, 147	37, 73, 117, 123  Exercise 3, 10 (math symbols)
8. Determine the unknown whole number in an addition or subtraction equation relating to three whole numbers. For example, determine the unknown number that makes the equation true in each of the equations $8 + ? = 11$ , $5 = \square - 3$ , $6 + 6 = \square$ .	38, 39, 45, 57, 60, 66, 67, 72, 78, 79, 89, 92, 101, <b>103</b> , 104, 127, 141	73, 117, 123, 127  Exercise 3
<b>Number and Operations in Base Ten</b>		
<b>Extend the counting sequence.</b>		
1. Count to 120, starting at any number less than 120. In this range, read and write numerals and represent a number of objects with a written numeral.	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 32, 33, 34, 35, 36, 37, 38, 39, 40, 42, 44, 46, 47, 59, 61, 69, 72, 74, 82, 86, 89, 93, 94, 98, 109, 112, 113, 114, 118, 130, 131, 132, 133, 144, 147  Ordinals 59, 132	2, 3, 4, 11, 12, 26, 46, 47, 82, 131, 132  Exercise 1, 2, 6
<b>Understand place value.</b>		
2. Understand that the two digits of a two-digit number represent amounts of tens and ones. Understand the following as special cases:		
a. 10 can be thought of as a bundle of ten ones — called a “ten.”	6, 13, 16, 21, 24, 29, 33, 42, 61, <b>63</b> , <b>69</b> , <b>72</b> , <b>74</b> , <b>82</b> , <b>86</b> , 94, 98, 102, 109, 111, 113, 130, 137, 147	33, 111, 114

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b. The numbers from 11 to 19 are composed of a ten and one, two, three, four, five, six, seven, eight, or nine ones.	13, 16, 21, 24, 35, 42, 61, <b>63, 69, 82</b> , 94, 98, 109, 113, 147	33
c. The numbers 10, 20, 30, 40, 50, 60, 70, 80, 90 refer to one, two, three, four, five, six, seven, eight, or nine tens (and 0 ones).	42, 69, 72, 74, 82, 86, 94, 113, 130, 147	33
3. Compare two two-digit numbers based on meanings of the tens and ones digits, recording the results of comparisons with the symbols $>$ , $=$ , and $<$ .	52, 80, 91, 111, 121, 126  Single-digit 11, 12, 53, 81	106  Single-digit 11, 12, 36  Objects 17, 37
<b>Use place value understanding and properties of operations to add and subtract.</b>		
4. Add within 100, including adding a two-digit number and a one-digit number, and adding a two-digit number and a multiple of 10, 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 and explain the reasoning used. Understand that in adding two-digit numbers, one adds tens and tens, ones and ones; and sometimes it is necessary to compose a ten.	48, 49, 51, 58, 74, 88, 90, 96, 97, 106, 122, 129, 136, 139, 146, 147  Subtraction 110, 111, 116, 123, 137	37, 38, 144
5. Given a two-digit number, mentally find 10 more or 10 less than the number, without having to count; explain the reasoning used.	*90, 102, <b>129</b> , *130	111, 131
6. Subtract multiples of 10 in the range 10-90 from multiples of 10 in the range 10-90 (positive or zero differences), 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 and explain the reasoning used.	*90, <b>129</b>	131

Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers Exercise Numbers
<b>Measurement and Data</b>		
<b>Measure lengths indirectly and by iterating length units.</b>		
1. Order three objects by length; compare the lengths of two objects indirectly by using a third object.	50, *56, 83	13, 24, 32, 91 Exercise 5 Weight 14, 39, 43, 53, 63, 136
2. Express the length of an object as a whole number of length units, by laying multiple copies of a shorter object (the length unit) end to end; understand that the length measurement of an object is the number of same-size length units that span it with no gaps or overlaps. Limit to contexts where the object being measured is spanned by a whole number of length units with no gaps or overlaps.	50, 56, 83 Various units 87	91 Exercise 5 Temperature 42 Capacity 21, 48 Volume 52, 71
<b>Tell and write time.</b>		
3. Tell and write time in hours and half-hours using analog and digital clocks.	26, 27, 62, 138, 143, 152 Months / weeks / days 76, 95	138, 143 Months / weeks / days - Exercise 9
<b>Represent and interpret data.</b>		
4. Organize, represent, and interpret data with up to three categories; ask and answer questions about the total number of data points, how many in each category, and how many more or less are in one category than in another.	73, 115, 120	13, 14, 32, 38, 39, 66, 72, 141, 142 Exercise 5, 12 Venn Diagrams 99, 102

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Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers Exercise Numbers
<b>Geometry</b>		
<b>Reason with shapes and their attributes.</b>		
1. Distinguish between defining attributes (e.g., triangles are closed and three-sided) versus non-defining attributes (e.g., color, orientation, overall size); build and draw shapes to possess defining attributes.	8, 9, 65, 75, 125, 135 Objects 17, 37 Solid shapes 150, 151	7, 26, 28, 49, 57, 61, 86, 88, 97, 101, 109, 119, 126, 137, 148, 153 Exercise 3
2. Compose two-dimensional shapes (rectangles, squares, trapezoids, triangles, half-circles, and quarter-circles) or three-dimensional shapes (cubes, right rectangular prisms, right circular cones, and right circular cylinders) to create a composite shape, and compose new shapes from the composite shape.	8, 9, 65, 125, 135	7, 49, 57, 61, 64, 86, 88, 97, 101, 103, 107, 109, 112, 119, 121, 124, 126, 129, 133, 148, 152, 153 Exercise 4, 7
3. Partition circles and rectangles into two and four equal shares, describe the shares using the words halves, fourths, and quarters, and use the phrases half of, fourth of, and quarter of. Describe the whole as two of, or four of the shares. Understand for these examples that decomposing into more equal shares creates smaller shares.	107, 108, 119, 128, 148 Add / Subtract Fractions (using circles) 155	134
<b>Mathematical Practices</b>		
1. Make sense of problems and persevere in solving them.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151 Exercise 5, 8, 11, 12
2. Reason abstractly and quantitatively.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151 Exercise 5, 8, 11, 12

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3. Construct viable arguments and critique the reasoning of others.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151  Exercise 5, 8, 11, 12
4. Model with mathematics.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 108, 115, 117, 119, 120, 141, 143	13, 14, 24, 29, 39, 32, 41, 43, 48, 52, 53, 54, 62, 66, 67, 69, 91, 92, 94, 96, 102, 123, 134, 136, 138, 144, 151  Exercise 8, 11, 12
5. Use appropriate tools strategically.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151  Exercise 5, 8, 11, 12
6. Attend to precision.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151  Exercise 5, 8, 11, 12
7. Look for and make use of structure.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151  Exercise 5, 8, 11, 12
8. Look for and express regularity in repeated reasoning.	45, 55, 57, 60, 66, 67, 73, 77, 85, 89, 100, 101, 103, 104, 105, 108, 115, 117, 119, 120, 134, 141, 143	2, 4, 13, 14, 16, 24, 29, 32, 41, 43, 44, 48, 52, 53, 54, 62, 66, 67, 69, 72, 76, 89, 91, 92, 93, 94, 96, 99, 102, 105, 108, 113, 123, 134, 136, 138, 139, 141, 142, 144, 146, 149, 151  Exercise 5, 8, 11, 12



# 1<sup>st</sup> Grade Common Core Standards / *Excel Math* Correlation

Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers Exercise Numbers
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The following are concepts not required by the CCS but are lessons in *Excel Math*:

Concept	Lessons	Activity / Exercise
Patterns	25, 42	6, 8, 9, 19, 22, 23, 51, 56, 59, 78, 87, 98, 154
Deduction / Comparison / Combinations	20	16, 34, 54, 62, 89, 93, 96, 104, 113, 125, 146, 147, 149, 151 Venn Diagrams 99, 102
Money	23, 29, 51, 68, 139, 154	68, 81, 83, 84, 128, 144
Estimation	134	29, 41
Location terms	145	36, 74, 77, 79, 89, 116 Exercise 4
Order	105	44, 76, 108, 139
Probability	55	67, 94, 102
Symmetry / Transformations	140, 153	122
Odd / Even Numbers	131	
Ordinals	59, 132	
Measurement	Months / weeks / days 76, 95	Weight 14, 39, 43, 53, 63, 136 Temperature 42 Capacity 21, 48 Volume 52, 71 Months / weeks / days - Exercise 9
Add / Subtract Fractions	155	

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Common Core 1<sup>st</sup> Grade Standards /  
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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L1	Using the numerals 0 to 9	Number / Operations Base Ten 1
L2	Selecting the correct numeral for a given set of pictures	Number / Operations Base Ten 1
Activity 2	Grouping and counting similar items	Number / Operations Base Ten 1 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L3	Writing the correct numeral for a given set	Number / Operations Base Ten 1
Activity 3	Creating numerals out of common materials	Number / Operations Base Ten 1
L4	Writing the numerals 1 through 9	Number / Operations Base Ten 1
Activity 4	Grouping and counting items based on varying data	Number / Operations Base Ten 1 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L5	Filling in missing numbers when counting by 1 (0 through 9)	Number / Operations Base Ten 1
Exercise 1	Using numbers in different ways	Operations / Algebraic 5 Number / Operations Base Ten 1
L6	Learning the concept of 10	Number / Operations Base Ten 1, 2a
Activity 6	Recognizing, describing and creating patterns of sound and motion	
L7	Matching a set with an equal number of items	Operations / Algebraic 7
Activity 7	Creating shapes with string.	Geometry 1, 2
L8	Identifying circles, squares, triangles and rectangles	Number / Operations Base Ten 1 Geometry 1, 2
Activity 8	Using colors and shapes to represent patterns of sound and motion	
L9	Identifying circles, squares, triangles and rectangles	Number / Operations Base Ten 1 Geometry 1, 2
Activity 9	Using colors and shapes to represent patterns of motion	
L10	Filling in missing numbers when counting down	Number / Operations Base Ten 1
L11	Selecting the set with the most items	Number / Operations Base Ten 1
Activity 11	Determining the higher value in a pair of numerals between 0 and 9	Number / Operations Base Ten 1
L12	Selecting the set with the fewest items	Number / Operations Base Ten 1





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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
Activity 12	Determining the lesser value in a pair of numerals between 0 and 9	Number / Operations Base Ten 1
L13	Learning the concept of 11	Number / Operations Base Ten 1, 2a, 2b
Activity 13	Comparing longer and shorter	Measurement / Data 1, 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L14	Adding 2 numbers with a sum less than 6	Operations / Algebraic 1, 5, 6 Number / Operations Base Ten 1
Activity 14	Comparing heavier and lighter; recording results on a chart	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L15	Adding 2 numbers with a sum less than 6	Operations / Algebraic 1, 6 Number / Operations Base Ten 1
Exercise 2	Finding and writing numbers.	Number / Operations Base Ten 1
L16	Learning the concept of 12	Number / Operations Base Ten 1, 2a, 2b
Activity 16	Making a selection based on observation of clues	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L17	Filling in missing numbers when counting up or down and crossing 10	Number / Operations Base Ten 1
Activity 17	Comparing and sorting common objects using a variety of criteria	
L18	Adding 2 numbers with a sum less than 10	Operations / Algebraic 1, 6 Number / Operations Base Ten 1
Activity 18	Practicing addition facts	Operations / Algebraic 1, 6
L19	Filling in more than 1 missing number when counting up crossing 10	Number / Operations Base Ten 1
Activity 19	Modeling activity and sound patterns using shapes and colors	
L20	Identifying comparison and position word pairs	
L21	Learning the concept of 13 and 14	Number / Operations Base Ten 1, 2a, 2b
Activity 21	Filling a container using multiple smaller containers	
L22	Learning the addition facts of 10	Operations / Algebraic 1, 6 Number / Operations Base Ten 1
Activity 22	Observing and recreating patterns using visual memory	



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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L23	Recognizing and adding pennies and using the cents symbol	Number / Operations Base Ten 1
Activity 23	Modeling patterns of movement	
L24	Learning the concept of 15 and 16	Number / Operations Base Ten 1, 2a, 2b
Activity 24	Measuring objects using non-standard units	Measurement / Data 1 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L25	Completing a pattern of shapes	Number / Operations Base Ten 1
Exercise 3	Identifying geometric figures and their positions; adding horizontally	Operations / Algebraic 1, 2, 6, 7, 8 Geometry 1
L26	Telling time by the hour	Measurement / Data 3
Activity 26	Comparing figures and grouping them into sets	Operations / Algebraic 6 Number / Operations Base Ten 1 Geometry 1
L27	Telling time by the hour	Number / Operations Base Ten 1 Measurement / Data 3
Activity 27	Recognizing numeral equivalents; adding numbers	Operations / Algebraic 1
L28	Identifying a set that has 1 more item than a given set	Operations / Algebraic 5 Number / Operations Base Ten 1
Activity 28	Identifying a point's location using the words inside and outside	Geometry 1
L29	Recognizing and adding nickels	Operations / Algebraic 1, 5, 6 Number / Operations Base Ten 1, 2a
Activity 29	Estimating quantities in a container	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L30	Subtracting 2 numbers with a minuend less than 6	Operations / Algebraic 1, 6
L31	Subtracting 2 numbers with a minuend less than 6	Operations / Algebraic 1, 5, 6
Activity 31	Practicing subtraction facts	Operations / Algebraic 1, 6
L32	Adding 3 numbers with a sum less than 10	Operations / Algebraic 2 Number / Operations Base Ten 1
Activity 32	Measuring and comparing various dimensions	Measurement / Data 1, 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L33	Learning the concept of 17, 18 and 19.	Operations / Algebraic 6 Number / Operations Base Ten 1, 2a
Activity 33	Practicing regrouping	Number / Operations Base Ten 2a, 2b, 2c

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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L34	Identifying a set that has 1 less item than a given set	Operations / Algebraic 5 Number / Operations Base Ten 1
Activity 34	Identifying shared characteristics of members of a set	
L35	Learning the addition facts of 11	Operations / Algebraic 6 Number / Operations Base Ten 1, 2b
L36	Fill in two consecutive missing numbers in a series.	Operations / Algebraic 6 Number / Operations Base Ten 1
Activity 36	Give and Follow directions using location terms.	
L37	Subtract 2 one-digit numbers with a minuend less than 8.	Operations / Algebraic 1, 6 Number / Operations Base Ten 1
Activity 37	Identify similarities and differences between like objects.	Operations / Algebraic 7 Number / Operations Base Ten 4
L38	Write addition and subtraction problems horizontally.	Operations / Algebraic 4, 6, 7, 8 Number / Operations Base Ten 1
Activity 38	Identify vertical, diagonal and horizontal objects.	Number / Operations Base Ten 4 Measurement / Data 4
L39	Write addition and subtraction problems horizontally	Operations / Algebraic 4, 6, 8 Number / Operations Base Ten 1
Activity 39	Sort items whose weight is greater than, less than or equal to another item.	Measurement / Data 4 Mathematical Practices 4
L40	Fill in missing numbers in the middle of a series.	Number / Operations Base Ten 1
Exercise 4	Write the words for numbers and geometric shapes.	Geometry 2
L41	Add 2 one-digit numbers with a sum of twelve.	Operations / Algebraic 6
Activity 41	Estimate quantities	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L42	Count up to 29 items	Operations / Algebraic 5, 6 Number / Operations Base Ten 1, 2a, 2b, 2c
Activity 42	Measure and compare the temperatures of cold, cool, warm and hot water.	
L43	Add numbers by starting with the larger one and adding on.	Operations / Algebraic 5, 6
Activity 43	Weigh an object using non-standard units.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8



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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L44	Subtract 2 one-digit numbers with a minuend less than 10.	Operations / Algebraic 4, 6 Number / Operations Base Ten 1
Activity 44	Reasoning – Put events in order	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L45	Write addition number sentences.	Operations / Algebraic 1, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L46	Recognize the words zero, one, two, three, four and five.	Operations / Algebraic 6 Number / Operations Base Ten 1
Activity 46	Represent numbers in multiple ways.	Number / Operations Base Ten 1
L47	Recognize the words six, seven, eight, nine and ten.	Operations / Algebraic 6 Number / Operations Base Ten 1
Activity 47	Hop as directed by number cards.	Number / Operations Base Ten 1
L48	Add a one-digit and two-digit number with a sum less than 20.	Number / Operations Base Ten 4
Activity 48	Measurement - Capacity	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L49	Add a one-digit and two-digit number with a sum less than 20.	Number / Operations Base Ten 4
Activity 49	Find multiple geometric shapes in one complex drawing.	Geometry 1, 2
L50	Measure lengths using non-standard units.	Measurement / Data 1, 2
Exercise 5	Measure shapes with rulers and define the characteristics of a good measuring device.	Measurement / Data 1, 2, 4 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L51	Recognize and add dimes.	Operations / Algebraic 6 Number / Operations Base Ten 4
Activity 51	Observe and recreate patterns using visual memory.	
L52	Select the number with the greatest value.	Number / Operations Base Ten 3
Activity 52	Determine which of two containers has the greater volume.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L53	Select the number with the least value.	Operations / Algebraic 6
Activity 53	Determine which of four objects weighs the least.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L54	Learn the addition facts of 13.	Operations / Algebraic 6
Activity 54	Discover all the possible combinations of food items.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8



**Common Core 1<sup>st</sup> Grade Standards /  
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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L55	Learn the probability terms of certain, impossible, likely and unlikely.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L56	Measure common objects and line segments to the nearest inch.	Operations / Algebraic 6 Measurement / Data *1, 2
Activity 56	Represent patterns of motion and sound verbally and using blocks.	
L57	Write number sentences using subtraction.	Operations / Algebraic 4, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 57	Fit simple shapes over a complex shape.	Geometry 1, 2
L58	Learn subtraction facts up through 10.	Operations / Algebraic 4, 6 Number / Operations Base Ten 4
Activity 58	Practice addition and subtraction facts using their listening skills.	Operations / Algebraic 6
L59	Recognize and write ordinals first-fifth in word and number form.	Number / Operations Base Ten 1
Activity 59	Create patterns using animal shapes.	
L60	Choose the correct operation symbol for a number sentence.	Operations / Algebraic 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Exercise 6	Recognize and use math words	Number / Operations Base Ten 1
L61	Count up to 39.	Operations / Algebraic 6 Number / Operations Base Ten 1, 2a, 2b
Activity 61	Create triangles and other shapes from rectangular sheets of paper.	Geometry 1, 2
L62	Tell time on the half hour.	Measurement / Data 3
Activity 62	Solve a logic problem.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L63	Group by ten	Operations / Algebraic 6 Number / Operations Base Ten 2a, 2b
Activity 63	Weigh various objects.	
L64	Combine 3 one-digit numbers with a sum greater than 10.	Operations / Algebraic 2
Activity 64	Create geometric shapes by moving lines.	Geometry 2
L65	Draw, sort and compare geometric shapes.	Geometry 1, 2



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L66	Write addition number sentences from story problems	Operations / Algebraic 1, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 66	Determine the probability of rolling combinations of letters marked on a cube.	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L67	Write subtraction number sentences from story problems.	Operations / Algebraic 1, 4, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 67	Complete a probability chart based on rolling random numbers.	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L68	Recognize the design and monetary value of the quarter and use the dollar sign and decimal point.	Operations / Algebraic 6
Activity 68	Identify and compare characteristics of coins.	
L69	Group by tens when counting higher than 19.	Operations / Algebraic 5 Number / Operations Base Ten 1, 2a, 2b, 2c
Activity 69	Balance a scale by moving weights from one side to the other.	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L70	Learn addition facts of 14 and count up to 49.	Operations / Algebraic 6
L71	Recognize addition and subtraction fact families.	Operations / Algebraic 3, 4, 6
Activity 71	Use various tools for measuring volume.	
L72	Recognize addition and subtraction fact families up to 9. Count up to 59.	Operations / Algebraic 3, 5, 6, 7, 8 Number / Operations Base Ten 1, 2a, 2c
Activity 72	Use family relationships to group people into sets.	Measurement / Data 4 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L73	Gather information using tally charts.	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 73	Model fact families.	Operations / Algebraic 3, 6, 7, 8
L74	Learn subtraction facts of 11: students will count to 69.	Operations / Algebraic 4, 6 Number / Operations Base Ten 1, 2a, 2c, 4



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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
Activity 74	Demonstrate positional words.	
L75	Sort geometric figures by common attributes.	Geometry 1
Exercise 7	Draw geometric shapes and describe them in words.	Geometry 2
L76	Recognize the days of the week in order.	
Activity 76	Arrange a series of events in a logical order and tell a story.	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L77	Obtain numerical information from a story problem.	Operations / Algebraic 1 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 77	Find a location based on verbal directions.	
L78	Use a number line to solve addition problems.	Operations / Algebraic 5, 6, 7, 8
Activity 78	Create repeating patterns using pictures.	
L79	Using number lines to solve subtraction problems	Operations / Algebraic 4, 5, 6, 7, 8
Activity 79	Explaining how to get from one point to another on a map	
L80	Selecting a number that is less than a given number	Number / Operations Base Ten 3
L81	Selecting a number that is greater than a given number	Operations / Algebraic 6
Activity 81	Studying different coin designs	
L82	Recognizing the words eleven, twelve and thirteen; counting up to 99	Operations / Algebraic 5 Number / Operations Base Ten 1, 2a, 2b, 2c
Activity 82	Representing numbers in multiple ways	Number / Operations Base Ten 1
L83	Measuring a line segment to the nearest centimeter	Operations / Algebraic 6 Measurement / Data 1, 2
Activity 83	Studying different coins	
L84	Learning the addition facts of 15, 16, 17 and 18	Operations / Algebraic 6
Activity 84	Creating coin designs	
L85	Solving word problems using addition in a number sentence.	Operations / Algebraic 1, 7 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8

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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
Exercise 8	Write word problems from pictures	Operations / Algebraic 1, *2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L86	Recognizing numbers represented by tens and ones	Operations / Algebraic 5, 6 Number / Operations Base Ten 1, 2a, 2c
Activity 86	Creating mirror images of complex shapes	Geometry 1, 2
L87	Reading scales measuring volume, temperature and weight	
Activity 87	Identifying, describing and creating patterns	
L88	Learning the subtraction facts of 12	Operations / Algebraic 3, 4, 6 Number / Operations Base Ten 4
Activity 88	Creating different shapes by adding lines to a drawing	Geometry 1, 2
L89	Calculating value of a number shown as sum or difference of 2 numbers	Operations / Algebraic 3, 4, 6, 7, 8 Number / Operations Base Ten 1 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 89	Moving objects in a logical manner	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L90	Recognizing a number series counting by 1, 5 or 10	Operations / Algebraic 5 Number / Operations Base Ten 4, *5, *6
L91	Putting 3 numbers in order from least to greatest	Operations / Algebraic Number / Operations Base Ten 3
Activity 91	Working with non-standard measurement units	Measurement / Data 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L92	Writing a number sentence from a number line	Operations / Algebraic 6, 7, 8
Activity 92	Modeling word problems involving numbers	Operations / Algebraic 1, 2 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L93	Learning the subtraction facts of 13	Operations / Algebraic 3, 4, 6 Number / Operations Base Ten 1
Activity 93	Finding minor differences between similar images	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L94	Recognizing the words fourteen, fifteen, twenty, thirty and forty	Number / Operations Base Ten 1, 2a, 2b, 2c





**Common Core 1<sup>st</sup> Grade Standards /  
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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
Activity 94	Creating pie charts to represent the probability of selecting objects	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L95	Learning day, week, month, year; naming the twelve months of the year	
Exercise 9	Writing days, seasons, months and holidays	
L96	Adding a two-digit number and a one-digit number	Operations / Algebraic 6 Number / Operations Base Ten 4
Activity 96	Identifying possible combinations	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L97	Adding 2 two-digit numbers, no regrouping	Operations / Algebraic 6 Number / Operations Base Ten 4
Activity 97	Creating shapes by removing lines from a drawing	Geometry 1, 2
L98	Recognizing the words sixteen, seventeen, eighteen and nineteen	Number / Operations Base Ten 1, 2a, 2b
Activity 98	Acting out patterns of sound and motion from written descriptions	
L99	Adding 4 one-digit numbers with a sum less than 20	Operations / Algebraic 2
Activity 99	Representing the intersection of sets with Venn diagrams	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L100	Solving word problems using subtraction	Operations / Algebraic 1, 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L101	Solving word problems using addition and subtraction	Operations / Algebraic 1, 4, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 101	Creating similar shapes using colored pattern blocks	Geometry 1, 2
L102	Filling in missing numbers when counting by 10	Number / Operations Base Ten 2a, 5
Activity 102	Calculating probability based on information in a Venn diagram	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L103	Filling in missing addends in a number sentence	Operations / Algebraic 1, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 103	Changing the appearance of a shape by moving lines	Geometry 2

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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L104	Filling in missing addends in a number sentence	Operations / Algebraic 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 104	Sorting similar objects and recording differences between them	
L105	Observing change and determining the order of events	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L106	Learning the subtraction facts of 14 and 15	Operations / Algebraic 3, 4, 6 Number / Operations Base Ten 4
Activity 106	Comparing and ranking two 2-digit numbers	Number / Operations Base Ten 3
L107	Learning the parts of a fraction and filling in the denominator	Geometry 3
Activity 107	Changing the appearance of a shape by moving lines	Geometry 2
L108	Filling in the denominator of a fraction	Geometry 3 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 108	Identifying all possible orders	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L109	Recognizing the words fifty and sixty	Operations / Algebraic 6 Number / Operations Base Ten 1, 2a, 2b
Activity 109	Overlaying small pattern blocks onto complex shapes	Geometry 1, 2
L110	Subtracting a one-digit number from a two-digit number	Operations / Algebraic 6
Exercise 10	Identifying math symbols	Operations / Algebraic 7
L111	Subtracting 2 two-digit numbers	Operations / Algebraic 1, *4 Number / Operations Base Ten 2a, 3
Activity 111	Exchanging ones and tens	Number / Operations Base Ten 2a, 5
L112	Filling in missing numbers when counting by 5	Operations / Algebraic 5 Number / Operations Base Ten 1
Activity 112	Creating shapes by moving lines on a drawing	Geometry 2
L113	Recognizing the words seventy, eighty and ninety	Operations / Algebraic 6 Number / Operations Base Ten 1, 2a, 2b
Activity 113	Identifying items by process of elimination	Mathematical Practices 1, 2, 3, 5, 6, 7, 8

**Common Core 1<sup>st</sup> Grade Standards /  
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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L114	Adding 4 one-digit numbers with a sum greater than 19	Operations / Algebraic 2 Number / Operations Base Ten 1
Activity 114	Writing number words to match the correct numerals	Number / Operations Base Ten 2a
L115	Interpreting information given in picture graphs	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L116	Learning the subtraction facts of 16, 17 and 18	Operations / Algebraic 3, 6
Activity 116	Giving directions to get from one point to another on a map	
L117	Filling in missing subtrahends in a number sentence	Operations / Algebraic 1, 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 117	Calculating sums and differences for pairs of numbers	Operations / Algebraic 6, 7, 8
L118	Recognizing any number word less than 100	Operations / Algebraic 6 Number / Operations Base Ten 1
Activity 118	Adding numbers and moving game pieces based on calculations	Operations / Algebraic 6
L119	Filling in the numerator of a fraction	Geometry 3 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 119	Overlaying small pattern blocks onto complex shapes	Geometry 1, 2
L120	Gathering information to put into graphs	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Exercise 11	Writing weather facts, quantitative and qualitative	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L121	Recognizing the < less than, > greater than and = equal to symbols	Number / Operations Base Ten 3
Activity 121	Creating shapes by removing lines from a drawing	Geometry 2
L 122	Adding 2 two-digit numbers horizontally	Operations / Algebraic 7 Number / Operations Base Ten 4
Activity 122	Drawing lines of symmetry on letters	
L123	Subtracting 2 two-digit numbers horizontally	Operations / Algebraic 7

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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
Activity 123	Combining numbers to form true number sentences	Operations / Algebraic 3, 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L124	Recognizing a number series counting by even twos	Operations / Algebraic 5
Activity 124	Creating animal figures using pattern blocks	Geometry 2
L125	Reasoning using overlapping figures	Geometry 1, 2
L126	Calculating a number one more or one less than a given number	Operations / Algebraic 5, 6 Number / Operations Base Ten 1 3
Activity 126	Finding basic shapes within complex figures	Geometry 1, 2
L127	Recognizing basic fact families with sums of 10 and greater	Operations / Algebraic 6, 7, 8
Activity 127	Subtracting repeatedly from 90 to zero	Operations / Algebraic 4, 6, 8
L128	Finding the fractional part of a group of figures	Operations / Algebraic 6 Geometry 3
Activity 128	Identifying coins by their size and characteristics	
L129	Calculating a number ten more or ten less than a given number	Operations / Algebraic 1, 5 Number / Operations Base Ten 4, 5, 6
Activity 129	Creating tile designs using pattern blocks	Geometry 2
L130	Counting past 100	Number / Operations Base Ten 1, 2a, 2c, *5
Exercise 12	Graphing information in different ways	Measurement / Data 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L131	Recognizing odd and even numbers up to 10	Number / Operations Base Ten 1
Activity 131	Matching numbers that are 1 apart and those that are 10 apart	Operations / Algebraic 5 Number / Operations Base Ten 1, 5, 6
L132	Recognizing and writing the ordinals first through tenth	Number / Operations Base Ten 1
Activity 132	Creating numerals using limbs	Number / Operations Base Ten 1
L133	Recognizing a number series counting by odd twos	Operations / Algebraic 5, 6 Number / Operations Base Ten 1
Activity 133	Creating shapes by removing lines from a drawing	Geometry 2



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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
L134	Estimating answers	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
Activity 134	Writing fractions that represent sets shown in Venn diagrams	Geometry 3 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L135	Identifying and drawing lines, sides, angles, corners and vertices	Geometry 1, 2
L136	Adding a two-digit number and a one-digit number horizontally	Number / Operations Base Ten 4
Activity 136	Comparing weight of different packages; creating and analyzing graphs	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L137	Subtracting a one-digit number from a two-digit number horizontally	Operations / Algebraic 1, *4 Number / Operations Base Ten 2a
Activity 137	Sorting capital letters according to curved and straight lines	Geometry 1
L138	Telling time by 5 minutes, given the hour	Measurement / Data 3
Activity 138	Estimating the amount of time activities will take	Measurement / Data 3 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L139	Identifying coins that add to a given amount	Operations / Algebraic 2 Number / Operations Base Ten 4
Activity 139	Arranging a sequence of events in pictorial form	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L140	Recognizing flips, slides and turns	
L141	Filling in a missing number on one side of a number sentence	Operations / Algebraic 6, 7, 8 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
Activity 141	Creating a virtual picture chart	Measurement / Data 4 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L142	Adding 3 one-digit numbers horizontally	Operations / Algebraic 2
Activity 142	Determining the best type of chart to use to display information	Measurement / Data 4 Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L143	Estimating how much time events take; identifying least or most time	Operations / Algebraic 6 Measurement / Data 3 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8



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Lesson (Activity) Number	Excel Math Lesson Objective	Common Core Standard
Activity 143	Sorting clocks according to the times they show	Measurement / Data 3
L144	Filling in missing numbers when counting up by twos	Operations / Algebraic 5 Number / Operations Base Ten 1
Activity 144	Calculating maximum number of coins that can be used to give change	Number / Operations Base Ten 4 Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L145	Following directions to get to a location	
L146	Regrouping when adding a two-digit and one-digit number using a number line	Operations / Algebraic 6 Number / Operations Base Ten 4
Activity 146	Solving logic puzzles and rewriting puzzles so that the answer is true	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L147	Regrouping when adding a two-digit and one-digit number	Operations / Algebraic 5, 7 Number / Operations Base Ten 1, 2a, 2b, 2c, 4
Activity 147	Classifying images by their characteristics	
L148	Filling in the numerator and the denominator of a fraction	Geometry 3
Activity 148	Drawing geometric shapes from a verbal description of the shape	Geometry 1, 2
L149	Adding 3 one-digit numbers with a sum greater than 19	Operations / Algebraic 2, 6
Activity 149	Solving logic puzzles and rewriting puzzles so that the answer is true	Mathematical Practices 1, 2, 3, 5, 6, 7, 8
L150	Recognizing and naming solid shapes	
L151	Identifying solid shapes	
Activity 151	Solving logic puzzles by trial and error	Mathematical Practices 1, 2, 3, 4, 5, 6, 7, 8
L152	Telling time by 5 minutes	Measurement / Data 3
Activity 152	Creating similar shapes using colored pattern blocks	Geometry 2
L153	Drawing lines of symmetry	
Activity 153	Creating shapes by removing lines from a drawing	Geometry 1, 2



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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>Common Core Standard</b>
L154	Using the dollar symbol and decimal; recognizing dollar coins and bills	
Activity 154	Completing a pattern of shapes	
L155	Adding and subtracting fractions	