

Standards / Objectives	<i>Excel Math</i> Lesson Numbers	Activity Numbers
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Strand 1: Number and Operations

Concept 1: Number Sense

PO 1. Express whole numbers 0 to 100, in groups of tens and ones using and connecting multiple representations.	1, 2, 3, 4, 6, 13, 14, 16, 21, 22, 24, 31, 32, 33, 35, 37, 38, 41, 42, 44, 46, 47, 48, 49, 54, 58, 61, 63, 64, 69, 70, 72, 74, 82, 86, 88, 94, 96, 98, 109, 111, 113, 118, 130, 147	2, 3, 4, 33, 46, 82, 111, 114, 132 Exercise 1, 2, 4, 6
PO 2. Count forward to 100 and backward from 100 by 1s and 10s using different starting points, and count forward to 100 by 2s and 5s.	1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 25, 27, 28, 29, 30, 32, 34, 35, 36, 37, 39, 40, 41, 42, 43, 44, 45, 47, 48, 49, 51, 52, 54, 57, 58, 60, 61, 62, 64, 67, 69, 70, 74, 78, 79, 82, 86, 88, 90, 92, 94, 102, 112, 113, 124, 130, 131, 133, 144, 146, 147	2, 4, 27, 31, 47
PO 3. Identify numbers which are 10 more or less than a given number to 90.	One more or less 28, 34, 126 Ten more or less 58, 129 Fractions 107, 108, 119, 128, 148, 155	131
PO 4. Compare and order whole numbers through 100 by applying the concepts of place value.	11, 12, 28, 34, 52, 53, 80, 81, 89, 91, 111 Money 23, 29, 51, 68, 139, 154	11, 12, 106, 111, 131 Money 68, 81, 83, 84, 128, 144
PO 5. Recognize and compare ordinal numbers, first through tenth.	59, 132 Odd / Even 131	

Concept 2: Numerical Operations

PO 1. Solve contextual problems using multiple representations for addition and subtraction facts.	23, 29, 32, 35, 37, 45, 51, 57, 58, 66, 67, 68, 70, 74, 78, 85, 88, 92, 100, 101, 103, 139, 146	18, 27, 31, 33, 58, 69, 73 Exercise 8
PO 2. Demonstrate addition and subtraction of numbers that total less than 100 by using various representations that connect to place value concepts.	14, 15, 18, 22, 30, 31, 32, 33, 35, 36, 37, 38, 39, 41, 42, 43, 44, 45, 48, 49, 54, 57, 58, 60, 64, 66, 67, 70, 71, 72, 74, 78, 79, 81, 83, 84, 85, 86, 88, 89, 91, 92, 93, 96, 97, 99, 100, 101, 103, 104, 106, 110, 111, 114, 116, 117, 122, 123, 127, 129, 136, 137, 139, 141, 142, 146, 147, 149	18, 27, 31, 33, 58, 69, 73, 117, 118, 123, 127 Exercise 8
PO 3. Develop and use multiple strategies for addition facts to 10+10 and their related subtraction facts.	60, *66, 71, 72, *78, *84, *85, 88, 93, 106, 116, *141 Basic Fact Practice 31, 33, 36, 38, 41, 42, 43, 46, 48, 55, 56, 61, 62, 68, 78, 81, 83, 86, 91, 96, 97, 98, 109, 110, 113, 118, 126, 128, 133, 141, 143, 146, 149	*27, *31, *33, 73, 117, 123



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PO 4. Create word problems based on addition and subtraction facts.	14, *15, 18, 22, 30, 31, 32, 35, 37, 45, 54, 57, 66, 70, 74, 85, 88, 100, 101, 103	18, 31, 58, 69, 92 Exercise 8
PO 5. Apply properties to solve addition/subtraction problems <ul style="list-style-type: none"> • identity property of addition/subtraction and • commutative property of addition 	*14, *15, *18, *22, *30, *31, *32, *35, *37, *39, 60, 71, 72, 88, *89, 93, 106, 116	*69
Concept 3: Estimation		
PO 1. Use estimation to determine if sums are more or less than 5, more or less than 10, or more or less than 20.	65, 127, 134 Time 143	29, 41, 69
Strand 2: Data Analysis, Probability, and Discrete Mathematics		
Concept 1: Data Analysis (Statistics)		
PO 1. Collect, record, organize, and display data using tally charts or pictographs.	73, 115, 120	13, 14, 32, 42, 43, 48, 52, 94, 96, 99, 141, 142 Exercise 11, 12
PO 2. Ask and answer questions by interpreting simple displays of data, including tally charts or pictographs.	73, 115, 120 Probability 55	13, 14, 32, 42, 43, 48, 52, 94, 96, 99, 141, 142 Exercise 11, 12 Probability 66, 67, 94, 102
Concept 2: Probability		
In Grade 1, there are no performance objectives in this concept		
Concept 3: Systematic Listing and Counting.		
PO 1. Use Venn diagrams to sort, classify, and count objects and justify the sorting rule.	*125	*54, 72, 99, 102, 134
Concept 4: Vertex-Edge Graphs		
In Grade 1, there are no performance objectives in this concept		

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Strand 3: Patterns, Algebra, and Functions

Concept 1: Patterns		
PO 1. Recognize, describe, extend, create, and record repeating patterns.	25	6, 8, 9, 19, 22, 23, 51, 56, 59, 78, 87, 98
PO 2. Recognize, describe, extend, create, and record growing patterns.	5, 10, 17, 19, 36, 40, 90, 102, 112, 124, 133, 144	

Concept 2: Functions and Relationships		
In Grade 1, there are no performance objectives in this concept		

Concept 3: Algebraic Representations		
PO 1. Record equivalent forms of whole numbers to 100 by constructing models and using numbers.	7, 89, 103, 117	69, 111, 114
PO 2. Compare expressions using spoken words and the symbols = and \neq .	38, 39, 45, 57, 60, 66, 67, 71, 72, 89, 92, 103, 117, 121, 122, 123, 127, 136, 137, 141, 142, 147	69, 73, 117, 123 Exercise 10
PO 3. Represent a word problem requiring addition or subtraction facts using an equation.	38, 45, 57, 60, 66, 67, 85, 100, 101, 139, 141	69, 92, 123, 127 Exercise 8

Concept 4: Analysis of Change		
In Grade 1, there are no performance objectives in this concept		

Strand 4: Geometry and Measurement

Concept 1: Geometric Properties		
PO 1. Identify and draw 2-dimensional geometric figures based on given attributes regardless of size or orientation.	8, 9, 65, 75, 135, 140, 153 Three Dimensional 150, 151	7, 9, 26, 28, 49, 61, 64, 88, 89, 97, 101, 103, 107, 109, 112, 119, 121, 124, 126, 129, 133, 148, 153 Exercise 3, 4, 7
PO 2. Compare and sort basic 2-dimensional figures (including irregular figures) using attributes and explain the reasoning for the sorting.	9, 65, 75, 135, 140, 153 Three Dimensional 150, 151	7, 26, 28, 49, 57, 61, 88, 101, 109, 137, 147, 148, 153 Exercise 3, 4, 7
PO 3. Describe the results of composing and decomposing 2-dimensional figures.	9, 140, 153	7, 28, 49, 57, 61, 64, 86, 88, 101, 103, 107, 109, 112, 119, 121, 122, 124, 126, 129, 133, 137, 147, 148, 152, 153, 154



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Concept 2: Transformation of Shapes		
In Grade 1, there are no performance objectives in this concept		
Concept 3: Coordinate Geometry		
In Grade 1, there are no performance objectives in this concept		
Concept 4: Measurement		
PO 1. Compare and order objects according to length, capacity, and weight.	50, 56, 83, 87	13, 14, 16, 21, 24, 32, 39, 43, 48, 52, 53, 63, 71, 91, 136, Exercise 5 Temperature 42
PO 2. Measure and compare the length of objects using the benchmark of one inch.	50, 56, 83	13, 24, 32, 91, Exercise 5
PO 3. Sequence the days of the week and the months of the year.	76, 95 Clocks 26, 27, 62, 138, 152	Exercise 9 Time 138, 143
Strand 5: Structure and Logic		
Concept 1: Algorithms and Algorithmic Thinking		
In Grade 1, there are no performance objectives in this concept		
Concept 2: Logic, Reasoning, Arguments, and Mathematical Proof		
PO 1. Identify the question(s) asked and any other questions that need to be answered in order to find a solution.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11
PO 2. Identify the given information that can be used to find a solution.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11
PO 3. Select from a variety of problem-solving strategies and use one or more strategies to arrive at a solution.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11
PO 4. Represent a problem situation using any combination of words, numbers, pictures.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11
PO 5. Explain and clarify mathematical thinking.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11
PO 6. Determine whether a solution is reasonable.	20, 77, 105, 143, 145	16, 17, 34, 36, 37, 44, 54, 62, 76, 89, 93, 104, 108, 113, 116, 138, 139, 141, 144, 146, 147, 149, 151 Exercise 11

*Gives opportunity to teach specific State Standard