

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
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## NUMBER AND OPERATIONS

**COMPETENCY GOAL 1:**  
**The learner will model, identify, and compute with whole numbers through 9,999.**

**1.01 Develop number sense for whole numbers through 9,999.**

a) Connect model, number word, and number using a variety of representations.	1,3, 4, 9, 12, 27, 33, 43, 49, 79, 150	
b) Build understanding of place value (ones through thousands).	1, 7, 12, 14, 19, 23, 27, 29, 33, 34, 38, 41, 42, 43, 47, 52, 64, 67, 100, 101, 102, 103, 132, 133, 136, 150	
c) Compare and order.	3, 4, 13, 21, 33, 38, 53, 57, 98, 104  Events: 70	

**1.02 Develop fluency with multi-digit addition and subtraction through 9,999 using:**

a) Strategies for adding and subtracting numbers.	1, 6, 7, 8, 9, 11, 12, 13, 14, 16, 17, 19, 22, 23, 24, 27, 28, 29, 33, 34, 36, 37, 41, 42, 45, 47, 51, 52, 53, 57, 61, 64, 67, 68, 73, 75, 76, 91, 98, 99, 115, 122, 131, 136, 137, 146	1, 2, 6, 9, 12, 16, 20, 21, 28, 36, 48, 57, 65, 79, 82, 91, 93, 100, 116, 144, 146
b) Estimation of sums and differences in appropriate situations.	22, 75, 85, 90, 98, 114, 115, 122	2, 6, 16, 21, 28, 36, 82, 93, 116, 146
c) Relationships between operations.	17, 24, 45, 53	

**1.03 Develop fluency with multiplication from 1x1 to 12x12 and division up to two-digit by one-digit numbers using:**

a) Strategies for multiplying and dividing numbers.	31, 39, 46, 53, 58, 59, 61, 68, 71, 73, 81, 83, 87, 88, 91, 92, 93, 94, 95, 96, 97, 101, 102, 103, 111, 113, 117, 118, 126, 127, 131, 132, 133, 134, 142, 143, 144, 151, 153, 154	70, 73, 75, 83, 89, 94, 100, 101, 107, 109, 114, 119, 124, 129, 134, 141, 149, 154
b) Estimation of products and quotients in appropriate situations.	85, 114, 134, 153, 154	



Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
c) Relationships between operations.	39, 46, 53, 58, 59, 61, 71, 95, 96, 103, 117, 118, 133, 134, 142, 151, 153	
1.04 Use basic properties (identity, commutative, associative, order of operations) for addition, subtraction, multiplication, and division.	6, 17, 24, 28, 39, 45, 46, 92, 117, *151	33
<b>1.05 Use area or region models and set models of fractions to explore part-whole relationships.</b>		
a) Represent fractions concretely and symbolically (halves, fourths, thirds, sixths, eighths).	54, 58, 66, 82, 109, 137, 147, 148, 149	Activity 3, 8
b) Compare and order fractions (halves, fourths, thirds, sixths, eighths) using models and benchmark numbers (zero, one-half, one); describe comparisons.	66, 147, 148, 149	Activity 8
c) Model and describe common equivalents, especially relationships among halves, fourths, and eighths, and thirds and sixths.	31, 109, 148, 149	Activity 8
d) Understand that the fractional relationships that occur between zero and one also occur between every two consecutive whole numbers.	31	*Activity 3
e) Understand and use mixed numbers and their equivalent fraction forms.	108	*Activity 3
<b>1.06 Develop flexibility in solving problems by selecting strategies and using mental computation, estimation, calculators or computers, and paper and pencil.</b>	3, 9, 10, 11, 15, 22, 25, 28, 31, 32, 36, 40, 60, 65, 70, 75, 80, 82, 83, 87, 88, 90, 92, 105, 110, 111, 114, 115, 122, 123, 126, 127, 137, 146, 151	3, 7, 8, 10, 12, 14, 18, 20, 22, 23, 25, 26, 27, 29, 30, 32, 34, 37, 38, 42, 43, 47, 51, 52, 53, 54, 55, 57, 59, 61, 62, 64, 65, 66, 67, 69, 71, 74, 79, 80, 81, 84, 88, 91, 92, 95, 96, 97, 98, 99, 100, 103, 105, 106, 108, 109, 112, 113, 118, 120, 121, 122, 127, 130, 131, 133, 135, 137, 139, 140, 142, 143, 145, 148, 152, 153, 155  Activity 1, 5, 6, 9, 11

\*Gives opportunity to teach specific State Standard

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## MEASUREMENT

**COMPETENCY GOAL 2:**  
**The learner will recognize and use standard units of metric and customary measurement.**

**2.01 Solve problems using measurement concepts and procedures involving:**

a) Elapsed time.	18, 26, *65, 78, 84, 89, 112, 152	3, 12, 22, 38, 54, 64
b) Equivalent measures within the same measurement system.	50, 63, 62, 74, 83, 114, 121, 125 Money: 16, 22, 33, 44, 51, 82, 114, 146	

**2.02 Estimate and measure using appropriate units.**

a) Capacity (cups, pints, quarts, gallons, liters).	50, 63, *83	29, 102, 117, 128, 145, 150
b) Length (miles, kilometers)	32, 50, 56, 62, 63, 83, 108, 125	
c) Mass (ounces, pounds, grams, kilograms).	32, 50, 62, 63, *83, 125, 135 Volume: 145 Perimeter: 86, 116 Area: 72, 124	109, 121, 127, 128, 140, 155 Volume/Surface area: Activity 7 Perimeter: 145, 150
d) Temperature (Fahrenheit, Celsius).	32	

## GEOMETRY

**COMPETENCY GOAL 3:**  
**The learner will recognize and use basic geometric properties of two- and three-dimensional figures.**

<b>3.01 Use appropriate vocabulary to compare, describe, and classify two- and three-dimensional figures.</b>	8, 41, 55, 69, 106, 119, 120, 128, 129, 138, 141 Angles: 138, 139	4, 17, 41, 46, 50, 58, 60, 72, 76, 78, 86, 87, 90, 104, 111, 115, 126, 132, 136, 147, 150, 151
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**3.02 Use a rectangular coordinate system to solve problems:**

a) Graph and identify points with whole number and/or letter coordinates.		Activity 4
b) Describe the path between given points on the plane.	10	Activity 4

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## DATA ANALYSIS AND PROBABILITY

**COMPETENCY GOAL 4:**  
The learner will understand and use data and simple probability concepts.

<b>4.01</b> Collect, organize, analyze, and display data (including circle graphs and tables) to solve problems.	5, 20, 25, *30, 35, 70, 80, 85, 126, 127, 141	20, 23, 51, 62, 67, 80, 84, 97, 98, 113, 120, 133, 143, 148
<b>4.02</b> Determine the number of permutations and combinations of up to three items.	5, 30, 45, 70	2, 6, 16, 21, 28, 36, 82, 93, 95, 116, 143, 146
<b>4.03</b> Solve probability problems using permutations and combinations.	5, * 30 (combinations)	62

## ALGEBRA

**COMPETENCY GOAL 5:**  
The learner will recognize, determine, and represent patterns and simple mathematical relationships.

<b>5.01</b> Describe and extend numeric and geometric patterns.	2, 4, 6, 13, 31, 37, 38, 48, 49, 53, 77, 80, 97, 104, 113, 130, 155	1, 9, 20, 45, 48, 57, 62, 65, 77, 78 Activity 2
<b>5.02</b> Extend and find missing terms of repeating and growing patterns.	6, 48, 49, 77, 80, 113, 155	1, 45, 48, 57, 62, 65, 77, 78
<b>5.03</b> Use symbols to represent unknown quantities in number sentences.	36, 81, 107, *122, *123	1, 11, 19, 24, 31, 39, 40, 44, 49, 56, 63, 68, 70, 73, 75, 77, 78, 83, 85, 89, 94, 101, 107, 110, 114, 119, 124, 129, 134, 141, 149, 154  *Activity 5
<b>5.04</b> Find the value of the unknown in a number sentence.	28, 36, 57, 76, 81, 92, 99, 107, *122, *123	1, 11, 19, 22, 24, 30, 31, 33, 35, 39, 40, 44, 48, 49, 54, 56, 63, 65, 68, 70, 73, 75, 77, 78, 83, 85, 89, 91, 94, 95, 101, 107, 110, 114, 119, 123, 124, 125, 129, 134, 141, 149, 154  *Activity 5