

Unit #	Standards / Objectives	Excel Math Lesson Numbers	Activity Numbers Stretch Numbers
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**NUMBER AND NUMBER RELATIONS**

1, 4	1. Differentiate between the terms <i>factor</i> and <i>multiple</i> , and <i>prime</i> and <i>composite</i> (N-1-M)	11, 28, 29, 38, 49, 61, 62, 88, 91, 93, 138	95, 98, 149
4, 5 6	2. Recognize, explain, and compute equivalent fractions for common fractions (N-1-M) (N-3-M)	31, 39, 59, 68, 76, 77, 78, 99, 105	Activity 14 (Percents)
4, 6	3. Add and subtract fractions with common denominators and use mental math to determine whether the answer is reasonable (N-2-M)	15, 23, 50, 69, 122 Multiply 110, 126, 153 Divide 129 Mult. / Div. Decimals 66, 100, 120, 147	132 Decimals: 20, 80, 89, 119, 121, 129, 130, Activity 7
4, 5	4. Compare positive fractions using number sense, symbols (i.e., <, =, >), and number lines (N-2-M)	Whole Numbers: 6, 37, 89 Fractions 31, 59, 68, 76, 77, 78, 105, 127, 136, 148 Decimals 85, 98, 100 Percents 112, 116, 117, 125 Reciprocals 118	Whole Numbers: 12, 66, 69, 82, 91, 97, 103 Decimals 144 Percent Activity 14
4, 6	5. Read, explain, and write a numerical representation for positive improper fractions, mixed numbers, and decimals from a pictorial representation and vice versa (N-3-M)	*3, *4, 9, 15, 23, 31, 39, 43, 44, 59, 60, 65, 68, 77, *99, 105, 106, 109, 113, 121, 127, 136 Whole Numbers 21, 26 Percent 83, 112, 125	*44, 64, 79, 133, 144 Activity 7, 14 Percent 148
4, 6	6. Select and discuss the correct operation for a given problem involving positive fractions using appropriate language such as <i>sum</i> , <i>difference</i> , <i>numerator</i> , and <i>denominator</i> (N-4-M) (N-5-M)	15, 23, 39, 44, 59, 69, 77, 83, 105, 109, 133, 142 Percent: 109, 116, 117, 130	44, 133
1, 7	7. Select, sequence, and use appropriate operations to solve multi-step word problems with whole numbers (N-5-M) (N-4-M)	2, 10, 15, 16, 25, 29, 32, 44, 58, 69, 70, 73, 74, 79, 82, 97, 102, 103, 130, 133, 142, 149	7, 13, 14, 17, 18, 19, 24, 27, 29, 33, 36, 44, 47, 54, 55, 58, 61, 64, 67, 70, 72, 79, 80, 84, 89, 92, 95, 96, 98, 99, 102, 105, 111, 113, 114, 115, 116, 117, 119, 120, 121, 122, 124, 125, 126, 127, 129, 130, 133, 135, 137, 145, 148, 150, 152, 155



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1, 2 5, 7	8. Use the whole number system (e.g., computational fluency, place value, etc.) to solve problems in real-life and other content areas (N-5-M)	2, 4, 9, 10, 13, 16, 21, 25, *26, *27, 29, 32, *33, *34, *46, *47, 58, 65, 66, 70, 73, 74, 79, 80, 82, 89, 96, 97, 102, 103, 108, 121, 142, 149, 150, 151, 154, 155  Multiply / Divide: 11, 16, 21, 22, 24, 26, 27, 28, 29, 33, 34, 36, 38, 41, 46, 47, 49, 63, 71, 73, 74, 79, 81, 86, 94, 101, 106, 107, 111, 119, 121, 128, 131, 132, 136, 139, 141, 146	3, 7, 8, 10, 11, 13, 14, 17, 19, 20, 24, 27, 29, 33, 36, 44, 47, 54, 55, 58, 61, 64, 66, 67, 69, 70, 72, 79, 80, 82, 89, 91, 95, 96, 98, 99, 102, 103, 105, 111, 114, 117, 118, 119, 120, 121, 122, 124, 125, 126, 127, 129, 130, 133, 135, 137, 144, 148, 149, 150, 151, 152
1, 6	9. Use mental math and estimation strategies to predict the results of computations (i.e., whole numbers, addition and subtraction of fractions) and to test the reasonableness of solutions (N-6-M) (N-2-M)	4, 10, 16, 21, 25, 29, 33, 34, 36, 41, *59, 82, 92	8, 44, 70, 72, 84, 92, 114, 115, 119, 124, 130, 137, 145, 146, 148, 152  Activity 7
1	10. Determine when an estimate is sufficient and when an exact answer is needed in real-life problems using whole numbers (N-6-M) (N-5-M)	4, 10, 16, 25, 29, 41, 44, 58, 82, 92, 97  Averages: 102, 103, 135	8, 44, 70, 72, 114, 115, 119, 124, 137, 148, 152  Activity 7  Averages: 130
5, 6 7	11. Explain concepts of ratios and equivalent ratios using models and pictures in real-life problems (e.g., understand that $\frac{2}{3}$ means 2 divided by 3) (N-8-M) (N-5-M)	55	*133, *137

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<b>ALGEBRA</b>			
1, 7	12. Find unknown quantities in number sentences by using mental math, backward reasoning, inverse operations (i.e., unwrapping), and manipulatives (e.g., tiles, balance scales) (A-2-M) (A-3-M)	1, 3, 14, 18, 19, 31, 32, 37, 41, 55, 58, 74, 77, 82, 124, 127, 140, 143	1, 4, 13, 17, 18, 21, 32, 36, 41, 58, 81, 86, 109, 120, 125
1, 6 7	13. Write a number sentence from a given physical model of an equation (e.g., balance scale) (A-2-M) (A-1-M)	9, 21, 26, 27, 44, 55, 77, 102, 124, 140, 150, 151, 154, 155	2, 3, 4, 5, 9, 10, 12, 13, 17, 18, 21, 31, 32, 36, 41, 44, 52, 58, 64, 67, 69, 70, 72, 81, 86, 92, 96, 103, 107, 109, 110, 116, 120, 124, 125, 127, 129, 138, 141, 143, 145, 146, 147
1, 6 7	14. Find solutions to one-step inequalities and identify positive solutions on a number line (A-2-M) (A-3-M)	Without Number Line: 9, 14, 16, 18, 19, 41, *44, 58, 74, 77, 124, 150, 151, 154, 155	Without Number Line: 5, 10, 17, 21, 36, 41, 67, 141
<b>MEASUREMENT</b>			
2, 3 4, 7	15. Model, measure, and use the names of all common units in the U.S. and metric systems (M-1-M)	12, 17, *48, 54, 56, 63, 67, 72, 74, 84, 103	14, 106, 122, 138, 140, 143, 154 Activity 8
2	16. Apply the concepts of elapsed time in real-life situations and calculate equivalent times across time zones in real-life problems (M-1-M) (M-6-M)	7, 8, 51, 57, 73	*54, *151, 154
2	17. Distinguish among the processes of counting, calculating, and measuring and determine which is the most appropriate strategy for a given situation (M-2-M)	12, 17, 48, 51, 54, 56, 58, 64, 72, 74, 84, 114, 137 Area / Perimeter 63, 95, 134, 144, 152	14, 58, 67, 70, 72, 99, 106, 114, 115, 152, 154 Activity 8 Area / Perimeter 122, 138, 139, 140, 147 Volume 143, Activity 9, 13
1, 2	18. Estimate time, temperature, weight/mass, and length in familiar situations and explain the reasonableness of answers (M-2-M)	12, 17, 51, 114 Area 152	14, 58, 67, 72, 114, 115, 152, 154 Square Yard 66, 106 Area 139, Activity 8, 9
2	19. Compare the relative sizes of common units for time, temperature, weight, mass, and length in real-life situations (M-2-M) (M-4-M)	7, 8, 12, 48, 51, 114	14, 58, 67, 114, 115, 152, 154 Area / Perimeter Activity 8



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2	20. Identify appropriate tools and units with which to measure time, mass, weight, temperature, and length (M-3-M)	7, 8, 12, 17, 30, 64, 114 Volume 84 Surface Area 137	99, 114, 115, 122, 138, 139, 152, 154 Activity 8 Surface Area / Volume Activity 13, 19
3, 4	21. Measure angles to the nearest degree (M-3-M)	30	
2	22. Compare and estimate measurements between the U.S. and metric systems in terms of common reference points (e.g., l vs. qt., m vs. yd.) (M-4-M)	12, 17, 48, 67, 114, *152	
2, 7	23. Convert between units of measurement for length, weight, and time, in U.S. and metric, within the same system (M-5-M)	7, 8, 17, 48, 51, 58, 67, 114	122
<b>GEOMETRY</b>			
3	24. Use mathematical terms to classify and describe the properties of 2-dimensional shapes, including circles, triangles, and polygons (G-2-M)	35, 42, 45, 53, 54, 63, 71, 75, 86, 144, 145 Three-Dimensional 20, 72	15, 22, 25, 34, 40, 43, 45, 49, 50, 60, 63, 71, 73, 78, 85, 88, 100, 104, 112, 136 Three-Dimensional 76, 93, 94, 128, 134, 142 Activity 10, 11, 12
3	25. Identify and use appropriate terminology for transformations (e.g., <i>translation</i> as <i>slide</i> , <i>reflection</i> as <i>flip</i> , and <i>rotation</i> as <i>turn</i> ) (G-3-M)	45	*25, *34, *40, *43, *50, 56, *60, *63, *78, *85
3	26. Identify shapes that have rotational symmetry (G-3-M)	45	*25, 56
3	27. Identify and plot points on a coordinate grid in the first quadrant (G-6-M)	52, 64, 90, 95, 123, 140	

\*Gives opportunity to teach specific State Standard

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**ANALYSIS, PROBABILITY, and DISCRETE MATH**

1	28. Use various types of charts and graphs, including double bar graphs, to organize, display, and interpret data and discuss patterns verbally and in writing (D-1-M) (D-2-M) (P-3-M) (A-4-M)	5, 13, 20, 40, 53, 55, 115, 116, 143	5, 11, 31, 117, 126, 135 Activity 4
1	29. Compare and contrast different scales and labels for bar and line graphs (D-1-M)	5, 40, 114	
1	30. Organize and display data using spreadsheets, with technology (D-1-M)	*40	Calculators Activity 5
1	31. Compare and contrast survey data from two groups relative to the same question (D-2-M)	116	117, 126, 135
5	32. Represent probabilities as common fractions and recognize that probabilities fall between 0 and 1, inclusive (D-5-M)	60, 117, 142 Possibilities 58	Activity 6 Possibilities 65, 123, Activity 4

**PATTERNS, RELATIONS, and FUNCTIONS**

1, 5 6, 7	33. Fill in missing elements in sequences of designs, number patterns, positioned figures, and quantities of objects (P-1-M)	6, 13, 42, 43, 86, 87, 98, 104, 111, 143	7, 9, 13, 16, 18, 24, 36, 45, 47, 59, 96, 105, 111, 131, 150 Deductive Reasoning / Order 6, 16, 23, 26, 28, 30, 35, 37, 38, 39, 42, 46, 48, 51, 53, 57, 62, 68, 74, 75, 77, 83, 86, 90, 94, 101, 108, 123, 128, 134, 142, 151, 153, Activity 1, 2, 3, 4
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