



Idaho 6th Grade Standards / *Excel Math* Correlation

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|---|--|---|
| STANDARD 1 | | |
| NUMBER and OPERATION | | |
| Goal 1.1: Understand and use numbers. | | |
| Objective 1: 6.M.1.1.1 Compare magnitudes and relative magnitudes of positive rational numbers, including whole numbers through billions, fractions, and decimals. | 1, 5, 9, 18, 19, 22, 24, 27, 35, 47, 48, 54, 57, 58, 61, 63, 73, 77, 78, 83, 87, 95, 108 Rounding: 49, 61, 108, 123 | 3, 23, 29, 36, 62, 70, 86, 98, 113, 117, 133, 142, 144, 155 Activity 12 |
| Objective 2: 6.M.1.1.2 Explain the interrelationship of fractions, decimals, and percents. | *18, 44, 52, 67, 71, 90, 94, 95, 97, 98, 99, 105, 110, 111, 113, 116, 127, 129, 133, 135 Reciprocals: 101 | 143, 147, 152 Activity 12 |
| Objective 3: 6.M.1.1.3 Locate the position of integers on a number line. | 49, 63, *73, *74, 119, 130, 131 | |
| Objective 4 6.M.1.1.4 Convert between decimals and fractions. | *18, 35, 44, 46, 52, 53, 71, 74, 128 | |
| Objective 5 6.M.1.1.5 Apply number theory concepts (prime, composite, prime factorization) and identify common factors and common multiples. | 1, 9, 17, 26, 50, 56, 64, 132 | 67, 72, 88, 90, 92, 99, 139 |
| Objective 6 6.M.1.1.6 Solve problems using the 4-step process of problem solving (explore, plan, solve, and examine). | 6, 7, 8, 9, 26, 31, 38, 52, 62, 69, 79, 81, 82, 87, 89, 99, 110, 122, 127, 133 | 2, 3, 7, 10, 12, 17, 18, 21, 47, 72, 76, 81, 82, 85, 91, 92, 143 Activity 14 |
| Objective 7 6.M.1.1.7 Describe the use of integers in real-world situations. | 2, 7, 8, 9, 20, 29, 31, 40, 42, 55, 58, 63, 67, 69, 72, 79, 87, 89, 94, 110, 127, 133 | 4, 12, 18, 21, 26, 38, 42, 47, 55, 65, 68, 76, 82, 85, 91, 101, 124, 143, 150, 154 Activity 14 |
| Objective 8 6.M.1.1.8 Use appropriate vocabulary. | 2, 5, 6, 7, 8, 9, 18, 19, 26, 29, 31, 35, 42, 67, 110 | 18, 27 Activity 14 |



Idaho 6th Grade Standards / *Excel Math* Correlation

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|--|--|--|
| Goal 1.2: Perform computations accurately. | | |
| Objective 1: 6.M.1.2.1 Recall basic multiplication and division facts from 12 x 12 Times Table. | 6, 26, 40, 72, 132 | 16, 17, 41, 50 |
| Objective 2: 6.M.1.2.2 Add, subtract, multiply, and divide whole numbers, decimals, and simple fractions (including unlike denominators). | 1, 2, 6, 9, 12, 16, 17, 19, 20, 26, 28, 31, 38, 39, 40, 41, 42, 43, 46, 48, 51, 52, 54, 55, 57, 58, 61, 62, 67, 69, 71, 72, 78, 79, 81, 82, 85, 87, 92, 93, 94, 95, 96, 102, 103, 104, 106, 107, 110, 112, 117, 118, 122, 127, 130, 131, 132, 133, 134, 136, 138, 141, 142, 143, 144, 146, 147, 152, 153, 154, 155 | 1, 2, 5, 7, 8, 9, 10, 12, 16, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 31, 32, 35, 37, 38, 41, 42, 44, 46, 47, 48, 49, 50, 54, 60, 65, 66, 67, 68, 69, 70, 42, 73, 76, 77, 78, 81, 82, 85, 86, 87, 89, 91, 98, 101, 102, 103, 111, 113, 115, 117, 123, 124, 125, 126, 130, 132, 133, 135, 142, 143, 149, 150, 154, 155 Activity 14 |
| Objective 3: 6.M.1.2.3 Evaluate numerical expressions with whole numbers using the order of operations (excluding exponents). | 3, 91, 96, 117, 127 Exponents / Square Root: 77 | 27, 81 Activity 14 |
| Objective 4 6.M.1.2.4 Select and use an appropriate method of computation from mental math, paper and pencil, calculator or a combination of the three. | 1, 6, 7, 8, 9, 12, 16, 17, 20, 26, 31, 39, 42, 43, 58, 61, 62, 63, 67, 69, 71, 72, 79, 81, 87, 89, 92, 96, 99, 105, 110, 112, 117, 127, 133, 137, 141, 152, 153, 154 | 1, 2, 3, 4, 5, 6, 7, 9, 10, 12, 13, 15, 16, 17, 18, 20, 21, 24, 25, 26, 28, 30, 31, 32, 35, 37, 38, 41, 42, 44, 46, 47, 48, 49, 50, 54, 60, 62, 65, 67, 68, 69, 76, 81, 82, 85, 89, 91, 124, 135, 149, 150, 154 Activity 14 |
| Objective 5 6.M.1.2.5 Use a variety of strategies to solve real-life problems. | 6, 7, 8, 9, 20, 29, 31, 39, 40, 42, 43, 55, 58, 63, 67, 69, 72, 79, 87, 89, 92, 96, 99, 105, 110, 117, 133, 137, 141, 152, 153, 154 | 2, 4, 6, 7, 9, 10, 12, 13, 15, 16, 17, 18, 20, 21, 24, 25, 26, 28, 30, 31, 32, 35, 37, 38, 41, 42, 44, 46, 47, 48, 50, 54, 60, 65, 68, 69, 76, 82, 85, 89, 91, 92, 101, 124, 135, 136, 149, 150, 154 Activity 14 |
| Objective 6 6.M.1.2.6 Use appropriate vocabulary and notations. | 1, 2, 6, 7, 8, 9, 12, 16, 17, 26, 29, 31, 38, 40, 42, 43, 55, 58, 67, 69, 72, 92, 110, 133, 152 | 1, 3, 13, 15, 16, 18, 20, 25, 28, 31, 32, 38, 41, 44, 46, 47, 48, 54, 60, 62, 65, 69, 70, 76, 86, 91, 98, 113, 117, 142 |



Idaho 6th Grade Standards / *Excel Math* Correlation

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|--|---|---|
| Goal 1.3: Estimate and judge reasonableness of results. | | |
| Objective 1: 6.M.1.3.1 Estimate to predict computation results. | 20, 42, 51, 58, 86, 132, 134, 138, 140, 147, 154 Trial and Error: 69 | 1, 3, 5, 20, 31, 32, 35 |
| Objective 2: 6.M.1.3.2 Explain when estimation is appropriate. | 20, 42, 58, 86, 132, 134, 140, 147, 154 Trial and Error: 69 | 1, 3, 5, 20, 31, 32, 35 |
| Objective 3: 6.M.1.3.3 Identify whether a given estimate is an overestimate or underestimate. | 20, 42, 58, 86, 132, 134, 140, 147, 154 Trial and Error: 69 | 1, 3, 5, 20, 31, 32, 35 |
| Objective 4 6.M.1.3.4 Use a four-function calculator to solve complex grade-level problems. | *20, *42, *58, *86, *89, *110, *132, *134, *140 | *44, 132 Activity 14 |
| Objective 5 6.M.1.3.5 Formulate conjectures and discuss why they must be or seem to be true. | 20, 42, 58, 86, 132, 134, 140 Deductive Reasoning: 7 | Deductive Reasoning: 2, 7, 10, 11, 16, 17, 33, 38, 43, 52, 66, 95, 105, 120, 128, 134, 135, 136, 145, 148 |
| Objective 6 6.M.1.3.6 Use appropriate vocabulary. | 20, 42, 58, 86, 132, 134, 140 | |



| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|------------------------|---------------------------|---|
|------------------------|---------------------------|---|

| |
|---|
| <h2 style="margin: 0;">STANDARD 2</h2> <h3 style="margin: 0;">CONCEPTS and PRINCIPLES of MEASUREMENT</h3> |
|---|

| |
|---|
| Goal 2.1: Understand and use U.S. customary and metric measurements. |
|---|

| | | |
|---|---|---|
| Objective 1: 6.M.2.1.1 Select and use appropriate units and tools to make formal measurements in both systems. | 10, 11, 13, 29, 36 | |
| Objective 2: 6.M.2.1.2 Apply estimation of measurement to real-world and content problems using standard measuring devices. | 4, 10, 11, *13, 29, 137, 141 | 16, 28, 39 |
| Objective 3: 6.M.2.1.3 Apply understanding of relationships to solve real-world problems related to elapsed time. | 2, 13, 41, 43, 92 Distance / Speed: 89 | 21, 42, 60, 65, 89, 91, 137, 148 Distance: 6 Range / Velocity: Activity 14 |
| Objective 4 6.M.2.1.4 Given the formulas, find the perimeter or circumference and area of triangles, circles and parallelograms (all kinds). | 60, 121, 124, 125 Volume: 59, 108, 139 | 55, Activity 1, 2, 3 Volume: 59, Density: Activity 13 Range / Velocity: Activity 14 |
| Objective 5 6.M.2.1.5 Convert units of measurement within each system in one-step problems (e.g., quarts to gallons and gallons to quarts). | 10, 11, 29, 41, 126, 137, 141, 151 | 28, 39, 42, 44, 74, 84, 111 Activity 14 |
| Objective 6 6.M.2.1.6 Solve problems involving perimeter and area of rectangles. | 30, 75 (irregular figures), 76 Volume of prism: 59 Surface prism: 100 | 28, 39, 55, 56, 63, 77, 84 Activity 3, 4 |
| Objective 7 6.M.2.1.7 Use appropriate vocabulary and notations | 2, 10, 11, 29, 30, 60, 75, 121, 126 | 28, 39, 55 Activity 2 |

| |
|---|
| Goal 2.2 Apply the concepts of rates, ratios, and proportions. |
|---|

| | | |
|--|---------------------|-----------------------|
| Objective 1: 6.M.2.2.1 Identify and write ratios and scales (on a map). | 29, 40, 66, 97, 148 | *28, 54 Activity 4 |
|--|---------------------|-----------------------|

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|------------------------|---------------------------|---|
|------------------------|---------------------------|---|

STANDARD 3
CONCEPTS and LANGUAGE of
ALGEBRA and FUNCTIONS

Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships.

| | | |
|--|--|--|
| Objective 1: 6.M.3.1.1 Discuss the meaning and use of variables in simple expressions and equations. (320.01.a) | 2, 18, 40, 48, 57, 61, 83, 91, 114, 115, 116 | 5, 8, 22, 73, 75, 77, 81, 83, 87, 96, 102, 110, 115, 130 |
| Objective 2: 6.M.3.1.2 Translate simple word statements into algebraic equations | 33, 10, 114, 115, 116 | 2, 9, 21, 24, 27, 30, 37, 41, 44, 46, 47, 48, 50, 60, 62, 65, 68, 69, 75, 81, 82, 91, 101, 124, 154 |
| Objective 3: 6.M.3.1.3 Read and use symbols of “<,” “>,” and “=” to express relationships | 2, 6, 18, 40, 47, 48, 53, 57, 61, 63, 69, 74, 83, 91, 110, 114, 115, 116 | 2, 3, 5, 8, 9, 21, 22, 24, 26, 27, 28, 30, 37, 41, 44, 46, 47, 48, 50, 60, 62, 63, 65, 68, 69, 75, 81, 82, 91, 96, 101, 124, 132, 138, 154 |

Goal 3.2 Evaluate algebraic expressions.

| | | |
|---|---|--------------|
| Objective 1: 6.M.3.2.1 Use the following properties in evaluating numerical expressions: commutative, associative, identity, zero, inverse, and distributive | 6, 16, 26, 31, 37, 38, 52, 62, 81, 91, 103, 114, 132, 136, 138, 147 | 81 |
| Objective 2: 6.M.3.2.2 Evaluate simple algebraic expressions using substitution. | 2, 18, 40, 61, 69, 83, 91, 114, 115 | 5, 8, 75, 81 |

Goal 3.3 Solve algebraic equations and inequalities.

| | | |
|--|--------------------------|---|
| Objective 1: 6.M.3.3.1 Solve one-step equations with whole numbers. | 48, 61, 69, 91, 114, 115 | 5, 8, 9, 21, 22, 27, 28, 37, 41, 44, 46, 47, 48, 50, 60, 62, 65, 68, 69, 75, 81, 91, 101, 110, 124, 132, 138, 154 |
|--|--------------------------|---|



Idaho 6th Grade Standards / *Excel Math* Correlation

| Standards / Objectives | <i>Excel Math</i> Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|---|-------------------------------------|--|
| Goal 3.4: Understand the concept of functions. | | |
| Objective 1: 6.M.3.4.1 Extend simple patterns and state a rule (function) that generates the pattern using whole numbers, decimals, and fractions as inputs. | 8, 21, 33, 40, 69, 84, 149 | 6, 13, 15, 24, 26, 30, 75, 80, 94, 95, 100, 104, 106, 107, 109, 112, 114, 121, 122, 127, 131, 140, 141, 151, 153 |
| Objective 2: 6.M.3.4.2 Describe and extend patterns by using manipulatives and pictorial representations. | 8, 21, 33, 40, 69, 84, 149 | 6, 13, 15, 24, 26, 30, 75, 80, 94, 95, 100, 104, 106, 107, 109, 112, 114, 121, 122, 127, 131, 140, 141, 151, 153 |
| Objective 3: 6.M.3.4.3 Use mathematical models to show change in a real-world context | 8, 40, 69 | 6, 26, 30, 80, 94, 104, 151 |
| Objective 4 6.M.3.4.4 Use appropriate vocabulary. | 8, 40, 69, 84 | 6, 13, 15, 75, 80, 94, 141 |
| Goal 3.6: Apply functions to a variety of problems. | | |
| Objective 1: 6.M.3.6.1 Use patterns to represent and solve simple problems. | 8, 40, 69, 84 | 6, 13, 15, 75, 80, 94, 141 |

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|------------------------|---------------------------|---|
|------------------------|---------------------------|---|

| |
|--|
| <h2 style="margin: 0;">STANDARD 4</h2> <h3 style="margin: 0;">CONCEPTS and PRINCIPLES of GEOMETRY</h3> |
|--|

| |
|--|
| Goal 4.1: Apply concepts of size, shape, and spatial relationships. |
|--|

| | | |
|---|----------------------------------|---|
| Objective 1: 6.M.4.1.1 Describe relationships among types of one- and two- dimensional geometric figures, using their defining properties. | 14, 15, 21, 23, 60, 145, 148 | 14, 45, 53, 71, 108, 109, 116, 119, 129, 131 Activity 1, 2, 3, 8 |
| Objective 2: 6.M.4.1.2 Draw and measure various angles and shapes using appropriate tools. | 25, *33, 80, 88 | Activity 2 |
| Objective 3: 6.M.4.1.3 Apply fundamental concepts, properties, and relationships among points, lines, rays, and angles. | 11, 14, 25 | Activity 2 |
| Objective 4 6.M.4.1.4 Describe reflections, translations, and rotations on various shapes. | 23 | *61, *64 |
| Objective 5 6.M.4.1.5 Identify congruence, similarities, and line symmetry of shapes. | 23, 25, 148 | *51, *57, *58, *64 Activity *1, 6 |
| Objective 6: 6.M.4.1.6 Discuss the spatial relationship between two- and three-dimensional objects. | 15, 59, 145 | 51, 57, 58, *59, 64, 118, 119 Activity 2, 5, 7 |
| Objective 7: 6.M.4.1.7 Use appropriate vocabulary and symbols | 11, 14, 21, 23, 25, 59, 145, 148 | 51, 57, 58, 118 Activity 2, 5, 8 |

| |
|--|
| Goal 4.3: Apply graphing in two dimensions. |
|--|

| | | |
|---|-------------------------------|--|
| Objective 1: 6.M.4.3.1 Identify and plot points in the first quadrant on a coordinate plane. | 32, 36, 68, 76, 109, 115, 145 | |
|---|-------------------------------|--|

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
|---|--|---|
| STANDARD 5 | | |
| DATA ANALYSIS, PROBABILITY, and STATISTICS | | |
| Goal 5.1: Understand data analysis. | | |
| Objective 1: 6.M.5.1.1 Read and interpret tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables, line plots, and circle graphs. | 2, 40, 65, 69, 70, 94, 98 Intersecting Sets: 45 | 23, 29, 33, 36, 43, 52 |
| Objective 2: 6.M.5.1.2 Explain and justify stated conclusions drawn from tables, charts, and graphs. | 2, 40, 45, 65, 69, 70, 94, 98 | 23, 29, 33, 36, 43, 52 |
| Objective 3: 6.M.5.1.3 Use appropriate vocabulary and notations. | 2, 40, 45, 65, 69, 70, 94 | 23, 29, 33, 36, 43, 52 |
| Goal 5.2: Collect, organize, and display data. | | |
| Objective 1: 6.M.5.2.1 Collect, organize, and display the data with appropriate notation in tables, charts, and graphs, including broken line graphs, bar graphs, frequency tables and line plots. | 42, 65, 69 | 4, 33 Activity 9, 11 |
| Goal 5.3: Apply simple statistical measurements. | | |
| Objective 1: 6.M.5.3.1 Find measures of central tendency – mean, median, and mode – with simple sets of data. | 65, 70 Averages: 55, 120 | Activity 10 Averages: 47, 89, 138 |
| Objective 2: 6.M.5.3.2 Calculate the range of a set of data. | 2, 20, 65, 70, 110, 138 | Activity 10, 14 |
| Goal 5.4: Understand basic concepts of probability. | | |
| Objective 1: 6.M.5.4.1 Predict, perform, and record results of simple probability experiments | 34, 150 Possibilities: 8, 69 | 146, 147 Combinations: 40, 41 Possibilities: 19, 34, 79, 80, 97 |
| Objective 2: 6.M.5.4.2 Use the language of probability | 34, 97, 99, 133150 | 138, 146, 147 |
| Goal 5.5: Make predictions or decisions based on data. | | |
| Objective 1: 6.M.5.5.1 Make predictions based on data. | 34, 150 | 146, 147 Possibilities: 19, 34, 79, 80, 97 |