



**California 6<sup>th</sup> Grade Standards /  
Excel Math Correlation by Lesson Number**

<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>California Standard / Objective</b>
L1	Recognizing numbers less than a million given in words or place value; recognizing ordinal number words up to 100; adding, subtracting and multiplying whole numbers or money amounts with regrouping; recognizing multiples; selecting the correct equation; solving multi-step word problems using addition, subtraction and multiplication with regrouping; calculating change using the least number of coins; recognizing money number words; recognizing addition and subtraction fact families	Number Sense: 2.3 Algebra / Functions: 1.1 Mathematical Reasoning: 1.1, 1.3, 2.2, 2.4, 2.5, 2.7, 3.1, 3.2, 3.3
L2	Comparing two or more sets of data using bar or line graphs; interpreting information given in a histogram; recognizing the symbols < less than and > greater than; filling in missing numbers in sequences counting by numbers from 1 to 12; arranging 4 four-digit numbers in order from least to greatest and greatest to least; selecting the correct symbol for a number statement	Number Sense: 2.3 Statistics, Data Analysis, Probability: 1.1, *1.2, 2.1, 2.2, 2.3, 2.4, 2.5 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L3	Recognizing true and not true number statements; using trial and error to solve for unknowns in an equation; solving algebraic equations with and without parentheses; changing a number statement from $\neq$ to $=$ ; learning the order of operations when solving an equation	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2, 1.3, 1.4
L4	Computing the date within the month; learning the abbreviations for days and months; learning 7 days = 1 week; learning 1 year = 12 months; learning the number of days in each month	Algebra / Functions: 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L5	Defining numerator and denominator; determining the fractional part of a group of items when modeled or given in words, sometimes with extraneous information and the word “not”; learning that the whole is the sum of its parts; adding and subtracting fractions and mixed numbers with like denominators	Number Sense: 1.1, *1.2, *1.3, 2.1
L6	Recognizing multiplication and division fact families; learning division facts with dividends up through 81 and dividends that are multiples of 10 (to 90), 11 (to 99) or 12 (to 96); dividing a one-digit divisor into a three-digit dividend with a two- or three-digit quotient with no regrouping or remainders; solving multi-step word problems involving division; learning the terminology for multiplication and division	Number Sense: 2.3 Mathematical Reasoning: 1.3, 2.4, 2.5, 2.7
L7	Solving word problems using deductive reasoning; determining if there is sufficient information to answer the question in a word problem; determining what information is needed to answer the question in a word problem	Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3
L8	Solving word problems by listing possibilities or by making a chart	Number Sense: 1.3, 2.3 Algebra / Functions: 2.2 Statistics, Data Analysis, Probability: 3.1, 3.2 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3

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L9	Learning division facts with remainders with dividends up through 81; solving word problems involving division with remainders	Number Sense: 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.2, 2.4, 2.5, 2.7, 3.1, 3.2, 3.3
L10	Estimating measurements; measuring temperature; learning measurement equivalents for length, weight, volume: feet, inches, yards, centimeters, meters, kilometers, grams, kilograms, liters, milliliters, millimeters, quarts, gallons, ounces, pounds and tons; converting measurements using multiplication or division; determining the measurement that is longer or shorter or heavier or lighter	Algebra / Functions: 2.1 Measurement / Geometry: 1.3
L11	Measuring line segments to the nearest half inch, quarter inch and half centimeter; comparing U.S. customary and metric units	Algebra / Functions: 2.1
L12	Multiplying by a two-digit multiplier	Number Sense: 2.3
L13	Learning 60 minutes = 1 hour; telling time to the minute; calculating minutes before the hour; calculating elapsed time (hours) involving AM and PM; recognizing a quarter past or before the hour and half past the hour	Algebra / Functions: 2.3
L14	Learning the terminology of parallel, intersecting and perpendicular lines, plane figure, polygon, quadrilateral, parallelogram, rectangle, square, diagonal, rhombus and trapezoid	Measurement / Geometry: 2.3
L15	Recognizing three-dimensional figures - sphere, cube, cone, cylinder, rectangular, square and triangular pyramids and rectangular and triangular prisms; learning the terminology of flat and curved faces, bases, edges and vertices	Measurement / Geometry: 1.3 Mathematical Reasoning: 2.4
L16	Dividing a one-digit divisor into a three-digit dividend with a two-digit quotient with regrouping and remainders	Number Sense: 2.3
L17	Determining the lowest common multiple; learning division and multiplication facts with products with 11 (to 121) or 12 (to 144) as a factor	Number Sense: 2.4
L18	Determining equivalent fractions using models, money, multiplication or division	Number Sense: 1.1, 2.1 Algebra / Functions: 1.1, 1.3, 3.1
L19	Computing $\frac{1}{2}$ to $\frac{1}{9}$ of a group of items; recognizing odd and even numbers less than 1,000	Number Sense: 2.1, 2.2, 2.3 Mathematical Reasoning: 2.4, 2.5, *2.6, 2.7, 3.1, 3.2, 3.3
L20	Rounding to the nearest ten, hundred or thousand; estimating the answers for addition, subtraction and multiplication word problems using rounding to the nearest ten, hundred or thousand; estimating range for an answer; rounding numbers so there is only one non-zero digit	Number Sense: 2.3 Statistics, Data Analysis, Probability: 1.1, 1.2, *1.3, 1.4 Mathematical Reasoning: 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3
L21	Recognizing patterns; learning the terminology of pentagon, hexagon and octagon; determining figures that do or do not belong in a set	Algebra / Functions: 3.2 Measurement / Geometry: 2.3 Mathematical Reasoning: 1.1, 1.2

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L22	Putting simple fractions in order from least to greatest and greatest to least; determining the fraction with the greatest or least value in a set of fractions	Number Sense: 1.1, 1.3
L23	Recognizing similar and congruent figures; recognizing flips, slides and turns; recognizing lines of symmetry; recognizing bilateral and rotational symmetry	Algebra / Functions: 3.2, 2.3
L24	Recognizing numbers up through trillions given in words or place value; recognizing numbers given in expanded notation	Mathematical Reasoning: 1.1, 1.2, 1.3
L25	Learning the sum of the angles of a rectangle; recognizing right, obtuse and acute angles; measuring and estimating angles; recognizing equilateral, isosceles and scalene triangles; learning the sum of the angles of a triangle	Measurement / Geometry: 2.1, *2.2, *2.3
L26	Dividing a two-digit divisor into a dividend less than 100 with remainders	Number Sense: 2.3, 2.4
L27	Converting an improper fraction to a mixed or whole number; determining the fraction with the greatest or least value in a set of fractions	Number Sense: 1.1
L28	Adding and subtracting fractions with unlike denominators	Number Sense: 2.1
L29	Reading maps drawn to scale	Number Sense: *1.2, 1.3, 2.3 Algebra / Functions: 2.1
L30	Calculating the area and perimeter of a rectangle; solving word problems involving area and perimeter	Number Sense: 2.3 Algebra / Functions: 3.1
L31	Dividing dollars by dollars	Number Sense: 3.1 Mathematical Reasoning: 2.4, 2.5, 2.7, 3.1, 3.2, 3.3
L32	Determining coordinate points	Algebra / Functions: 1.1, 1.2, 1.4, 3.2
L33	Recognizing the pattern in a sequence of figures or pattern of shading; solving for an unknown angle in a triangle	Number Sense: 1.3, 2.3 Algebra / Functions: 3.2 Mathematical Reasoning: 1.1
L34	Determining the probability of an event; comparing probabilities	Statistics, Data Analysis, Probability: 3.1, 3.2, 3.3, *3.5
L35	Recognizing tenths and hundredths places; writing mixed numbers as decimal numbers; writing decimal numbers as mixed numbers; recognizing decimal number words; adding and subtracting decimal numbers	Number Sense: 1.1
L36	Calculating the length of vertical and horizontal lines by subtracting x- and y-coordinates	Algebra / Functions: 1.4, 2.3
L37	Learning the Distributive Property of Multiplication; learning the Associative Property of Multiplication and Addition; learning the Commutative Property of Addition and Multiplication	Algebra / Functions: 1.3
L38	Dividing a one-digit divisor into a four-digit dividend with a three-digit quotient; learning the Property of One and the Zero Property	Number Sense: 2.3
L39	Adding and subtracting fractions in word problems	Number Sense: 2.1

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<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>California Standard / Objective</b>
L40	Recognizing multiplication without the “x” symbol; calculating answers to word problems using 2 to 1 and 5 to 1 ratios	Number Sense: 1.2, 2.3 Algebra / Functions: 1.1, 1.2, 2.2 Statistics, Data Analysis, Probability: 2.1, 2.2, 2.3, 2.4, 2.5 Mathematical Reasoning: 1.3
L41	Learning the equivalent for one year in days and in weeks; learning about leap year; calculating elapsed time crossing months within a week	Number Sense: 2.3 Algebra / Functions: 2.3
L42	Determining the question given the information and the answer; estimating the most reasonable answer	Number Sense: 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L43	Calculating elapsed time in minutes across the 12 on a clock	Number Sense: 2.3 Algebra / Functions: 2.3
L44	Converting fractions and decimal numbers to percents by setting up equivalent fractions	Number Sense: 1.1, 1.4, 2.1, 2.2
L45	Using Venn Diagrams to understand the union and intersection of sets	Algebra / Functions: 3.2 Statistics, Data Analysis, Probability: *1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5
L46	Converting mixed numbers to decimal numbers by setting up equivalent fractions	Number Sense: 1.1, 2.1, 2.2
L47	Comparing fractions with unlike denominators in less than and greater than problems and in true and not true number statements by setting up equivalent fractions	Number Sense: 1.1
L48	Converting improper fractions as part of mixed numbers; recognizing division without the “÷” symbol	Number Sense: 1.1, 1.3 Algebra / Functions: 1.1 Mathematical Reasoning: 2.3
L49	Rounding money amounts and decimal numbers to the nearest dollar or whole number	Number Sense: 1.1
L50	Determining factors, prime numbers, composite numbers and prime factors	Number Sense: 2.3, 2.4
L51	Multiplying decimal numbers	Number Sense: 2.3
L52	Dividing decimal numbers by whole numbers; converting percents to decimal numbers	Number Sense: 1.1, 1.4, 2.3
L53	Comparing decimal numbers in less than and greater than problems	Number Sense: 1.1
L54	Recognizing Roman numerals: I, V, X, L, C, D and M	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2, 1.4 Statistics, Data Analysis, Probability: 1.3 Mathematical Reasoning: 1.1, 1.2, 1.3
L55	Calculating averages	Number Sense: 2.3 Statistics, Data Analysis, Probability: 1.1, 1.2, 1.4
L56	Determining the greatest common factor and least common factor	Number Sense: 2.4
L57	Simplifying fractions; solving equations involving fractions	Number Sense: 1.1, 2.1, 2.2 Algebra / Functions: 1.4
L58	Estimating answers to problems involving numbers with up to nine digits	Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L59	Calculating the volume of a rectangular prism with one or more layers of cubes using the formula L x W x H	Measurement / Geometry: 1.3

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L60	Recognizing parts of a circle; calculating diameter and radius; associating the 360 degrees in a circle with one-quarter, one-half, three-quarter and full turns	Measurement / Geometry: 1.1, 1.2
L61	Recognizing the thousandths place; rounding decimal numbers to the nearest tenth or hundredth; solving equations involving decimals	Algebra / Functions: 1.1, 1.2
L62	Dividing a two-digit divisor into a three-digit dividend with a two-digit quotient; simplifying fraction answers	Number Sense: 2.1, 2.2, 2.3
L63	Comparing positive and negative numbers	Number Sense: *1.1, 2.3
L64	Determining numbers that are multiples of one number and factors of another	Number Sense: 2.4
L65	Calculating mean, median and mode; using stem and leaf plots	Statistics, Data Analysis, Probability: 1.1, 1.2, 1.3, 1.4, 2.1, 2.2, 2.3, 2.4, 2.5 Mathematical Reasoning: 2.3, 2.4
L66	Calculating equivalent ratios	Number Sense: 1.2, 1.3
L67	Determining percent in word problems	Number Sense: 1.4, 2.1, 2.2 Mathematical Reasoning: 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L68	Determining if coordinate points are on a given line	Algebra / Functions: 3.3 Mathematical Reasoning: 2.4, 2.5
L69	Using trial and error and charting strategies to solve word problems	Statistics, Data Analysis, Probability: 2.1, 2.2, 2.3, 2.4, 2.5, 3.1 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L70	Recognizing the difference between probability and statistics; defining dependent and independent variable, central tendency, statistics and outlier; recognizing factors that influence data collection; creating a scatter plot	Statistics, Data Analysis, Probability: 1.1, 1.2, 1.3, 1.4, 2.1, *2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.4, 3.5 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L71	Computing the percent of a whole number, money amount or decimal number	Number Sense: 1.4
L72	Calculating cost per unit	Number Sense: 2.3, 2.4 Algebra / Functions: 2.2, 2.3 Mathematical Reasoning: 1.3, 2.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L73	Filling in missing numbers in a sequence of decimal numbers	Number Sense: 1.1
L74	Putting decimal numbers in order from least to greatest and greatest to least; evaluating decimal numbers in true and not true number statements	Number Sense: 1.1
L75	Calculating the perimeter and area of an irregular figure	Algebra / Functions: 3.1 Measurement / Geometry: *1.3
L76	Calculating area and perimeter given coordinates on a coordinate grid	Algebra / Functions: 1.1, 1.2, 3.1, 3.2, 2.3
L77	Calculating using exponents; calculating square roots	Number Sense: 2.3 Algebra / Functions: 1.4 Mathematical Reasoning: 1.3, 2.4, 2.5
L78	Selecting an equivalent fraction; simplifying improper fractions as part of a mixed number answer	Number Sense: 1.1

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L79	Solving word problems involving decimals	Number Sense: 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.7, 3.1, 3.2, 3.3
L80	Recognizing complementary, straight and supplementary angles	Measurement / Geometry: 2.1, 2.2
L81	Calculating decimal answers in division problems when zeroes need to be added to the right of the dividend	Number Sense: 1.1, 2.3
L82	Dividing using short division	Number Sense: 2.3
L83	Converting mixed numbers to improper fractions	Number Sense: 1.1, 2.1 Algebra / Functions: 1.1, 1.2, 1.3, 1.4
L84	Filling in missing numbers in sequences counting by varying amounts	Number Sense: 2.3 Mathematical Reasoning: 1.1, 1.2
L85	Multiplying fractions and whole numbers by fractions	Number Sense: 2.1, 2.2
L86	Estimating to the nearest dollar or whole number	Number Sense: 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L87	Comparing fractions in word problems	Number Sense: 1.1 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.2, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L88	Recognizing adjacent, vertical, corresponding, exterior and interior angles; defining angle bisector	Measurement / Geometry: 2.1, 2.2
L89	Calculating distance, time, rate and speed in word problems	Number Sense: 2.3 Algebra / Functions: 1.1 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L90	Selecting the fraction, percent or decimal number that best represents a shaded region	Number Sense: 1.1, 1.3, 1.4
L91	Solving equations with embedded parentheses	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2, 1.3, 1.4
L92	Calculating elapsed time more than one week crossing months	Algebra / Functions: 2.2, 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L93	Reducing improper fraction answers to their lowest terms	Number Sense: 1.1, 2.1, 2.4
L94	Solving problems using data displayed as percent pie graphs	Number Sense: 1.4 Statistics, Data Analysis, Probability: 2.1, 2.2, 2.3, 2.4, 2.5 Mathematical Reasoning: 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L95	Recognizing decimal places to the right of the thousandths; multiplying decimals when zeroes need to be added to the product	Number Sense: 1.1
L96	Solving word problems by working backwards	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L97	Writing probability as a fraction, decimal, percent or proportion (ratio)	Number Sense: 1.2, 1.3, 1.4, 2.4 Statistics, Data Analysis, Probability: 3.2, 3.2, 3.3

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L98	Selecting the most reasonable answer involving percents	Number Sense: 1.4 Mathematical Reasoning: 3.1, 3.2, 3.3
L99	Writing probabilities as lowest-terms fractions	Number Sense: 1.2, 1.3, 1.4 Statistics, Data Analysis, Probability: 3.1, 3.3
L100	Calculating the surface area of a rectangular prism; determining the equation that creates a pattern	Number Sense: *1.3, 2.3 Algebra / Functions: 1.1, 1.2, 3.1, 3.2 Measurement / Geometry: 1.3, *2.3
L101	Determining reciprocals	Number Sense: 1.1, 2.1, 2.2
L102	Multiplying and dividing decimal numbers by powers of ten	Number Sense: 2.3
L103	Dividing a three-digit divisor into a three-digit dividend with a one-digit quotient	Number Sense: 2.3
L104	Multiplying mixed numbers	Number Sense: 2.1, 2.2
L105	Solving word problems involving percent, including the word “not”	Number Sense: 1.1, 1.4, 2.1, 2.2, 2.4 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L106	Subtracting fractions with like denominators with regrouping	Number Sense: 2.1
L107	Simplifying division problems using powers of ten	Number Sense: 2.3
L108	Estimating using rounding to one-digit accuracy; calculating volume in word problems	Number Sense: 2.3 Algebra / Functions: 1.1, *2.1 Measurement / Geometry: 1.3 Mathematical Reasoning: 2.1, 2.2
L109	Determining negative numbers using coordinate points	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2 Mathematical Reasoning: 2.3
L110	Solving word problems involving sales tax, sale price, interest and profit	Number Sense: 1.4 Algebra / Functions: *1.4 Mathematical Reasoning: 1.1, 1.2, 1.3, *2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L111	Converting decimal numbers to percents and percents to decimal numbers	Number Sense: 1.1, 1.4
L112	Using multiplication and division to simplify fraction multiplication problems; simplifying fractions before multiplying	Number Sense: 2.1, 2.2
L113	Converting decimal numbers to lowest-terms fractions or mixed numbers	Number Sense: 1.1, 2.4
L114	Determining the equation that represents a problem and the equation that solves it	Number Sense: 2.3 Algebra / Functions: 1.1, 1.2, 1.3
L115	Identifying the equation that represents a line on a coordinate graph; learning slope and intercept	Algebra / Functions: 1.1, 1.2, 1.3, 1.4
L116	Determining percent of a whole number	Number Sense: 1.4 Algebra / Functions: 1.1
L117	Solving word problems involving the multiplication of fractions and mixed numbers	Number Sense: 2.1 Mathematical Reasoning: 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L118	Dividing fractions	Number Sense: 2.1, 2.2
L119	Arranging fractions, decimal numbers and mixed numbers on a number line	Number Sense: 1.1
L120	Calculating averages involving decimals and fractions	Number Sense: 2.1, 2.2, 2.3

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L121	Calculating the area of a parallelogram	Algebra / Functions: 3.1, 3.2 Measurement / Geometry: *2.3
L122	Multiplying a three-digit number by a three-digit number	Number Sense: 2.3
L123	Rounding mixed numbers	Number Sense: 1.1 Mathematical Reasoning: 2.1, 2.2
L124	Calculating the area of a triangle	Algebra / Functions: 3.1, 3.2 Measurement / Geometry: *2.3
L125	Calculating the circumference and area of a circle; recognizing $\pi$ (pi)	Algebra / Functions: 3.1, 3.2 Measurement / Geometry: 1.1, 1.2
L126	Converting measurements using multiplication or division with fractional or decimal remainders	Algebra / Functions: 2.1
L127	Calculating percents in word problems	Number Sense: 1.4, 2.1, 2.2 Mathematical Reasoning: 1.3, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L128	Converting fractions to decimal numbers using division; recognizing the symbol for a repeating decimal	Number Sense: 1.1, 1.4, 2.1, 2.2
L129	Converting fractions to percents	Number Sense: 1.1, 1.4, 2.1
L130	Adding positive and negative integers	Number Sense: 2.3
L131	Continued - Adding positive and negative integers	Number Sense: 2.3
L132	Dividing a two-digit divisor into a three-digit dividend with a one-digit quotient	Number Sense: 2.3, 2.4
L133	Calculating expected numbers based on probabilities	Number Sense: *1.3, 1.4, 2.1, 2.2 Statistics, Data Analysis, Probability: *3.1, 3.2, 3.3, *3.4, *3.5 Mathematical Reasoning: 1.1, 1.2, 1.3,
L134	Using rounding to estimate quotients	Number Sense: 2.3 Mathematical Reasoning: 2.1, 2.2
L135	Determining percents that are greater than 100% and less than 1%	Number Sense: 1.1, 1.4
L136	Dividing a three-digit divisor into a four-digit dividend with a two-digit quotient	Number Sense: 2.3
L137	Adding and multiplying measurements, then simplifying units	Algebra / Functions: 2.1 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L138	Dividing a decimal number by a decimal number	Number Sense: 2.3
L139	Calculating the volume of a triangular prism or cylinder	Algebra / Functions: 3.1 Measurement / Geometry: 1.3, *2.3
L140	Reviewing rounding quotients; calculating percents in word problems, rounding to the nearest whole percent	Number Sense: 1.1, 1.4, 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L141	Subtracting measurements by exchanging units	Number Sense: 2.3 Algebra / Functions: 2.1 Mathematical Reasoning: 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L142	Dividing mixed numbers	Number Sense: 2.1, 2.2
L143	Subtracting positive and negative integers	Number Sense: 2.3
L144	Continued - Subtracting positive and negative integers	Number Sense: 2.3

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L145	Determining the fourth vertex of a parallelogram on a coordinate graph	Algebra / Functions: 3.1, 3.2 Measurement / Geometry: 2.3 Mathematical Reasoning: 2.3
L146	Subtracting mixed numbers and fractions with unlike denominators with regrouping	Number Sense: 2.1, 2.4
L147	Dividing a three-digit divisor into a four-digit dividend with a one-digit quotient	Number Sense: 2.3
L148	Solving for an unknown with similar polygons	Number Sense: 2.1 Algebra / Functions: 1.1, 1.2, 1.4, 3.1, 3.2 Measurement / Geometry: 2.2, 2.3
L149	Determining number patterns	Mathematical Reasoning: 1.1, 1.2, 1.3
L150	Calculating the probability of two separate events as a sum and two consecutive events as a product; calculating using factorials and permutations	Statistics, Data Analysis, Probability: 3.1, 3.2, 3.3, 3.4, *3.5
L151	Comparing the value of products using different currencies	Algebra / Functions: 2.1, 2.2, 2.3 Mathematical Reasoning: 1.1, 1.2, 1.3, 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L152	Calculating and comparing cost per unit	Number Sense: 1.4, 2.3 Algebra / Functions: 2.1, 2.2, 2.3 Statistics, Data Analysis, Probability: *1.1 Mathematical Reasoning: 1.2, 1.3, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L153	Solving word problems involving division of mixed numbers	Number Sense: 2.1, 2.2 Measurement / Geometry: 1.1, 1.2 Mathematical Reasoning: 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L154	Estimating answers to division word problems	Number Sense: 2.3 Mathematical Reasoning: 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 3.1, 3.2, 3.3
L155	Multiplying and dividing positive and negative integers	Number Sense: 2.3
Activity 1	Round & Oval Figures	Algebra / Functions: 3.1 Measurement / Geometry: 1.1, 1.2
Activity 2	Triangular Figures	Number Sense: 1.2, 1.3 Algebra / Functions: 3.1 Measurement / Geometry: *1.3, 2.1, 2.2, 2.3
Activity 3	Area & Perimeter	Algebra / Functions: 3.1 Measurement / Geometry: 1.1, 1.2
Activity 4	Surface Area	Algebra / Functions: 3.1
Activity 5	Three-Dimensional Figures	Measurement / Geometry: *1.3
Activity 6	Similarity & Congruence	Number Sense: 1.2 Algebra / Functions: 3.2
Activity 7	Mobius Strips	Algebra / Functions: 3.2
Activity 8	Tessellations	Algebra / Functions: 3.2
Activity 9	Data Collection	Statistics, Data Analysis, Probability: 2.1, 2.2, 2.3, 2.4, 2.5
Activity 10	Interquartile Range	Statistics, Data Analysis, Probability: 1.1, 1.2, 1.3, 1.4
Activity 11	Formulating Questions	Algebra / Functions: 2.2 Statistics, Data Analysis, Probability: 2.1, 2.2, 2.3, 2.4, 2.5

\*Gives opportunity to teach specific State Standard



California 6<sup>th</sup> Grade Standards /  
*Excel Math Correlation by Lesson Number*

<b>Lesson (Activity) Number</b>	<b>Excel Math Lesson Objective</b>	<b>California Standard / Objective</b>
Activity 12	Fractions	Number Sense: 1.1
Activity 13	Density	Measurement / Geometry: 1.3
Activity 14	Range	Algebra / Functions: 2.3

\* Gives opportunity to teach specific Standard

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
<b>NUMBER SENSE</b>		
<b>1.0 Students compare and order positive and negative fractions, decimals, and mixed numbers. Students solve problems involving fractions, ratios, proportions, and percentages.</b>		
1.1 Compare and order positive and negative fractions, decimals, and mixed numbers and place them on a number line	5, 18, 22, 27, 35, 44, 46, 47, 48, 49, 52, 53, 57, *63, 73, 74, 78, 81, 83, 87, 90, 93, 95, 101, 105, 111, 113, 119, 123, 128, 129, 135, 140	23, 29, 36, 144 Activity 12
1.2 Interpret and use ratios in different contexts (e.g., batting averages, miles per hour) to show the relative sizes of two quantities using appropriate notations (a/b, a to b, a:b)	*5, *29, 40, 66, 97, 99	48, 54, *109, *119, *131, 138 Activity 2. 6
1.3 Use proportions to solve problems (e.g., determine the value of N if $\frac{4}{7} = \frac{N}{21}$ , find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it as multiplication of both sides of an equation by a multiplicative inverse.	*5, 8, 22, 29, 33, 48, 66, 90, 97, 99, *100, *133	44, 54 Activity 2
1.4 Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned and tips	44, 52, 67, 71, 90, 94, 97, 98, 99, 105, 110, 111, 116, 127, 128, 129, 133, 135, 140, 152	18, 46, 48, 143, *150, 152
<b>2.0 Students calculate and solve problems involving addition, subtraction, multiplication and division: fractions</b>		
2.1 Solve problems involving addition, subtraction, multiplication and division of positive fractions and explain why a particular operation was used for a given situation	5, 18, 19, 28, 39, 44, 46, 57, 62, 67, 78, 83, 85, 93, 101, 104, 105, 106, 112, 117, 118, 120, 127, 128, 129, 133, 142, 146, 148, 153	2, 7, 10, 12, 49, 50, 68, 69, 82, 96, 101, 104, 110, 124, 152
2.2 Explain the meaning of multiplication and division of positive fractions and perform the calculations (e.g., $\frac{5}{8} \div \frac{15}{16} = \frac{5}{8} \times \frac{16}{15} = \frac{2}{3}$ )	18, 19, 44, 46, 57, 62, 67, 85, 101, 104, 105, 112, 117, 118, 120, 127, 128, 133, 142, 153	2, 7, 10, 12, 152



## California 6<sup>th</sup> Grade Standards / *Excel* Math Correlation

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
2.3 Solve addition, subtraction, multiplication and division problems, including those arising in concrete situations that use positive and negative integers and combinations of these operations	1, 2, 3, 6, 8, 9, 12, 16, 19, 20, 26, 29, 30, 31, 33, 38, 40, 41, 42, 43, 50, 51, 52, 54, 55, 61, 62, 63, 72, 77, 81, 82, 84, 86, 89, 91, 96, 100, 102, 103, 107, 108, 109, 114, 120, 122, 130, 131, 132, 134, 136, 138, 140, 141, 143, 144, 147, 152, 154, 155	1, 2, 5, 6, 7, 8, 9, 10, 12, 16, 17, 18, 20, 21, 22, 24, 25, 26, 27, 28, 30, 31, 32, 35, 37, 38, 39, 41, 42, 44, 46, 47, 48, 50, 54, 55, 59, 60, 62, 63, 65, 66, 67, 68, 69, 70, 72, 73, 74, 75, 76, 78, 81, 82, 83, 85, 86, 87, 91, 93, 98, 101, 102, 103, 111, 113, 115, 117, 123, 124, 125, 126, 128, 130, 132, 133, 138, 141, 142, 143, 150, 152, 154, 155
2.4 Determine the least common multiple and greatest common divisor of whole numbers. Use them to solve problems with fractions (e.g., to find a common denominator to add two fractions or to find the reduced form for a fraction)	17, 56, 93, 97, 105, 113, 132, 146 Multiples: 1, 26, 64, 72 Factors / Prime: 50, 64, 77	90, 92, 99, 139 Multiples: 67 Prime: 72, 88

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
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<b>ALGEBRA AND FUNCTIONS</b>		
<b>1.0 Students write verbal expressions and sentences as algebraic expressions and equations; they evaluate algebraic expressions, solve simple linear equations and graph and interpret their results.</b>		
1.1 Write and solve one-step linear equations in one variable	1, 3, 18, 32, 40, 48, 54, 57, 61, 76, 83, 89, 91, 96, 100, 108, 109, 114, 115, 116, 148	1, 20, 22, 39, 46, 48, 50, 60, 75, 82, 86, 98, 101, 110, 141
1.2 Write and evaluate an algebraic expression for a given situation using up to three variables	3, 32, 40, 54, 61, 76, 83, 91, 96, 100, 109, 114, 115, 148	1, 2, 3, 5, 8, 9, 16, 20, 21, 22, 24, 27, 28, 30, 37, 44, 46, 47, 49, 60, 69, 73, 75, 78, 81, 83, 87, 96, 102, 103, 115, 123, 126, 128, 130
1.3 Apply algebraic order of operations and the commutative, associative and distributive properties to evaluate expressions and justify each step in the process	3, 18, 37, 83, 91, 114, 115	5, 12, 21, 27, 37, 39, 46, 69, 75, 81, 82, 132
1.4 Solve problems using the correct order of operations or by using a scientific calculator	3, 32, 36, 54, 57, 77, 83, 91, 115, 148	*5, *8, 12, 21, 22, 27, 28, 37, 39, 44, 46, 69, 81, 82, 101, 123, 132, 141
<b>2.0 Students analyze and use tables, graphs and rules to solve problems involving rates and proportions.</b>		
2.1 Convert one unit of measurement to another (e.g., from feet to miles, from centimeters to inches)	10, 11, 29, *108, 126, 137, 141, 151, 152	39, 62, 74, *84, *89, 111, 113
2.2 Demonstrate an understanding that rate is a measure of one quantity per unit value of another quantity	8, 40, 72, 92, 151, 152	6, 30, 38, 44, 48, 85, 93 Activity 11
2.3 Solve problems involving rates, average speed, distance and time	4, 13, 29, 36, 40, 41, 43, 72, 89, 92, 137, 151, 152	6, 21, 30, 38, 42, 44, 47, 48, 60, 65, 91, 120, 137, 148 Activity 14
<b>3.0 Students investigate geometric patterns and describe them algebraically.</b>		
3.1 Use variables in expressions describing geometric quantities (e.g., $P = 2w + 2l$ , $A = \frac{1}{2}bh$ , $C = \pi d$ , the formula for the perimeter of a rectangle, area of a triangle, and circumference of a circle, respectively)	18, 30, 75, 76, 100, 121, 124, 125, 139, 145, 148	*28, *39, 45, 55, 56, 63, 77 Activity 1, 2, 3, 4

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
3.2 Express (in symbolic form) simple relationships arising from geometry	15, 21, 23, 25, 32, 33, 45, 68, 76, 100, 121, 124, 125, 145, 148	14, 16, 45, 51, 53, 57, 58, 61, 64, 71, 77, 84, 109, 118, 119, 121, 129, 131  Activity 6, 7, 8
<b>MEASUREMENT AND GEOMETRY</b>		
<b>1.0 Students deepen their understanding of measurement of plane and solid shapes and use this understanding to solve problems.</b>		
1.1 Understand the concept of a constant such as $\pi$ . Know the formulas for the circumference and area of a circle	60, 125, 153	Radius: 55  Activity 1, 3
1.2 Know common estimates of $\pi$ (3.14; 22/7) and use these values to estimate and calculate the circumference and the area of circles; compare with actual measurements	60, 125, 153	Radius: 55  Activity 1, 3
1.3 Know and use the formulas for the volume of triangular prisms and cylinders (area of base x height); compare (these formulas) and explain the similarity between them and the formula for the volume of a rectangular solid	10, *75, 59, 100, 108, 139	59, *118  Activity *2, *5  Density: Activity 13
<b>2.0 Students identify and describe the properties of two-dimensional figures.</b>		
2.1 Identify angles as vertical, adjacent, complementary and/or supplementary and provide descriptions of these terms	25, 80, 88	*45, *53, *71  Activity 2
2.2 Use the properties of complimentary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle	*25, 33, 80, 88, 148	*77  Activity 2
2.3 Draw quadrilaterals and triangles from given information about them (e.g., a quadrilateral having equal sides but no right angles, a right isosceles triangle)	*14, *21, 23, *25, 30, 76, *100, *121, *124, *139, 145, 148	14, 28, 39, 45, 51, 53, 56, 57, 58, 64, 61, 63, 71, 77, 84, 108, 116, 118, 129  Activity 2

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
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<b>STATISTICS, DATA ANALYSIS AND PROBABILITY</b>		
<b>1.0 Students compute and analyze statistical measurement for data sets.</b>		
1.1 Compute the range, mean, median and mode of data sets	2, 20, 55, 65, 70, 120, *152	*33, *43, 47, *52, 138 Activity 10
1.2 Understand how additional data added to data sets may effect these computations of measures of central tendency	*2, 20, *45, 55, 65, 70	*33, *43, 47, *52, 138 Activity 10
1.3 Understand how the inclusion or exclusion of outliers affect measures of central tendency	*20, 45, 54, 65, 70	*33, *43, *47, *52, 138 Activity 10
1.4 Know why a specific measure of central tendency (mean, median, mode) provides the most useful information in a given context	20, 55, 65, 70	*33, *43, 47, *52, 138 Activity 10
<b>2.0 Students use data samples of a population and describe the characteristics and limitations of the samples.</b>		
2.1 Compare different samples of a population with the data from the entire population and identify a situation in which it makes sense to use a sample	2, 40, 45, 65, 69, 70, 94	33, 43, 52, 99 Activity 9, 11
2.2 Identify different ways of selecting a sample (e.g., convenience sampling, responses to a survey, random sampling) and which method makes a sample more representative for a population	2, 40, 45, 65, 69, *70, 94	33, 43, 52, 99 Activity 9, 11
2.3 Analyze data displays and explain why the way in which the question was asked might have influenced the results obtained, and why the way in which the results were displayed might have influenced the conclusions reached	2, 40, 45, 65, 69, 70, 94	4, 33, 43, 52, 99 Activity 9, 11
2.4 Identify data that represent sampling errors and explain why the sample (and the display) might be biased	2, 40, 45, 65, 69, 70, 94	4, 33, 43, 52, 99 Activity 9, 11



## California 6<sup>th</sup> Grade Standards / *Excel Math* Correlation

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
2.5 Identify claims based on statistical data and, in simple cases, evaluate the validity of the claims	2, 40, 45, 65, 69, 70, 94	4, 33, 43, 52, 99 Activity 9, 11
<b>3.0 Students determine theoretical and experimental probabilities and use these to make predictions about events.</b>		
3.1 Represent all possible outcomes for compound events in an organized way (e.g., tables, grids, tree diagrams) and express the theoretical probability of each outcome	8, 34, 69, 70, 97, 99, *133, 150	11, 17, 19, 34, 40, 41, 45, 66, 67, 71, 79, 80, 95, 97, 99, 100, 106, 127, 135, 146, 147, 149
3.2 Use data to estimate the probability for future events (e.g., batting averages or number of accidents per mile driven)	8, 34, 70, 97, 133, 150	19, *40, *79, 146, 147
3.3 Represent probabilities as ratios, proportions, decimals between 0 and 1, and percentages between 0 and 100 and verify that the probabilities computed are reasonable; know that if $P$ is the probability of an event, $1-P$ is the probability of an event not occurring.	34, 97, 99, 133, 150	19, *40, *79, 97, 146, 147
3.4 Understand that the probability of either of two disjoint events occurring is the sum of the two individual probabilities and that the probability of one event following another, in independent trials, is the product of the two probabilities	34, 70, *133, 150	19, *40, *97, 146, 147
3.5 Understand the difference between independent and dependent events.	*34, 70, *133, *150	*97, *146, *147

Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
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**MATHEMATICAL REASONING**

<b>1.0 Students make decisions about how to approach problems.</b>		
1.1 Analyze problems by identifying relationships, discriminating relevant from irrelevant information, identifying missing information, sequencing and prioritizing information and observing patterns	1, 2, 4, 7, 8, 9, 21, 24, 33, 42, 54, 58, 69, 70, 84, 86, 89, 96, 133, 137, 140, 149, 151	4, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 21, 25, 26, 37, 44, 46, 47, 51, 69, 70, 75, 76, 79, 80, 93, 94, 95, 98, 99, 100, 101, 104, 105, 106, 107, 109, 112, 113, 114, 117, 121, 122, 123, 125, 127, 133, 134, 135, 136, 139, 140, 141, 142, 145, 149, 150, 151, 153, 154, 155
1.2 Formulate and justify mathematical conjectures based upon a general description of the mathematical question or problem posed	2, 4, 7, 8, 9, 20, 21, 24, 42, 54, 58, 69, 70, 84, 86, 89, 96, 133, 137, 140, 141, 149, 151, 152	1, 2, 3, 4, 6, 7, 9, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 25, 26, 37, 44, 46, 47, 51, 66, 69, 70, 75, 76, 79, 80, 93, 94, 98, 99, 100, 101, 104, 105, 107, 109, 113, 123, 134, 135, 136, 139, 140, 141, 145, 149, 150, 151, 153, 154
1.3 Determine when and how to break a problem into simpler parts	1, 2, 4, 6, 7, 8, 9, 20, 24, 40, 42, 54, 69, 70, 72, 77, 86, 89, 96, 127, 133, 137, 140, 141, 149, 151, 152	1, 2, 3, 4, 7, 9, 11, 12, 13, 16, 17, 18, 20, 21, 25, 26, 37, 44, 46, 47, 51, 66, 69, 70, 75, 76, 79, 80, 93, 94, 95, 98, 99, 100, 101, 104, 105, 106, 113, 114, 127, 134, 135, 136, 139, 140, 141, 142, 145, 149, 150, 153, 154
<b>2.0 Students use strategies, skills and concepts in finding solutions</b>		
2.1 Use estimation to verify the reasonableness of calculated results	20, 42, 58, 69, 86, 108, 123, 134, 140, 141, 151, 154	1, 3, 4, 6, 7, 10, 16, 17, 18, 20, 25, 31, 35, 37, 69, 72, 85, 102, 123, 135, 149
2.2 Apply strategies and results from simpler problems to more complex problems	1, 8, 9, 20, 42, 58, 69, 86, 94, 108, 123, 127, 134, 140, 141, 151, 154	1, 7, 12, 15, 17, 20, 31, 37, 69, 85, 102, 123, 135, 141
2.3 Estimate unknown quantities graphically and solve for them by using logical reasoning, and arithmetic and algebraic techniques	2, 8, 48, 65, 69, 70, 72, 109, 115, 145  Coordinate points: 68, 76	4, 21, 23, 29, 36, 66, 75, 81, 123, 135, 136, 141
2.4 Use a variety of methods such as words, numbers, symbols, charts, graphs, tables, diagrams and models to explain mathematical reasoning	1, 2, 4, 6, 7, 8, 9, 15, 19, 20, 31, 42, 58, 65, 67, 68, 69, 70, 72, 77, 79, 86, 89, 94, 96, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 4, 6, 7, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 25, 26, 37, 42, 44, 46, 47, 66, 68, 69, 75, 76, 85, 93, 94, 99, 101, 107, 122, 123, 135, 136, 139, 141, 148, 150
2.5 Express the solution clearly and logically using appropriate mathematical notation and terms and clear language, and support solutions with evidence, in both verbal and symbolic work	1, 2, 4, 6, 7, 8, 9, 19, 20, 31, 42, 58, 67, 68, 69, 70, 72, 77, 79, 86, 89, 94, 96, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 25, 26, 37, 42, 44, 46, 47, 66, 68, 69, 75, 76, 85, 93, 94, 99, 101, 123, 135, 136, 139, 141, 148, 150



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Standards / Objectives	Excel Math Lesson Numbers	Stretch Lesson Numbers Activity Numbers
2.6 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy	2, 4, 7, 8, *19, 20, 42, 58, 67, 69, 70, 72, 86, 89, 94, 96, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 4, 6, 7, 10, 11, 12, 13, 16, 17, 18, 20, 21, 25, 26, 37, 42, 44, 46, 47, 66, 68, 69, 76, 94, 99, 123, 135, 136, 139, 141, 148
2.7 Make precise calculations and check the validity of the results from the context of the problem	1, 2, 4, 6, 8, 9, 19, 31, 42, 58, 67, 69, 70, 72, 79, 86, 89, 94, 96, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15, 16, 17, 18, 20, 21, 25, 26, 37, 42, 44, 46, 47, 66, 68, 69, 75, 76, 85, 93, 94, 99, 101, 123, 135, 139, 141, 148, 150
<b>3.0 Students move beyond a particular problem by generalizing to other situations.</b>		
3.1 Evaluate the reasonableness of the solution in the context of the original situation	1, 2, 4, 7, 8, 9, 19, 20, 31, 42, 58, 67, 69, 70, 72, 79, 86, 89, 94, 96, 98, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15, 17, 18, 20, 21, 25, 37, 42, 44, 46, 47, 68, 69, 75, 76, 89, 93, 94, 99, 101, 135, 136, 139, 141, 148, 150
3.2 Note the method of deriving the solution and demonstrate conceptual understanding of the derivation by solving similar problems	1, 2, 4, 7, 8, 9, 19, 20, 31, 42, 58, 67, 69, 70, 72, 79, 86, 89, 94, 96, 98, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15, 17, 18, 20, 21, 25, 37, 42, 44, 46, 47, 68, 69, 75, 76, 89, 93, 94, 99, 101, 135, 136, 139, 141, 148, 150
3.3 Develop generalizations of the results obtained and the strategies used and apply them to new problem situations	1, 2, 4, 7, 8, 9, 19, 20, 31, 42, 58, 67, 69, 70, 72, 79, 86, 89, 94, 96, 98, 117, 127, 137, 140, 141, 151, 152, 153, 154	1, 2, 3, 4, 6, 7, 10, 11, 12, 13, 15, 17, 18, 20, 21, 25, 37, 42, 44, 46, 47, 68, 69, 75, 76, 89, 93, 94, 99, 101, 135, 136, 139, 141, 148, 150