



California 5th Grade Standards / Excel Math Correlation by Lesson Number

| Lesson (Activity) Number | Excel Math Lesson Objective | California Standard / Objective |
|--------------------------|--|--|
| L1 | Recognizing numbers less than a million given in words or place value; recognizing addition and subtraction fact families; subtracting 2 three-digit numbers with regrouping; adding 4 four-digit numbers with regrouping | Number Sense: 1.1, 1.4 |
| L2 | Learning the multiplication facts with products up through 30 and products with 5 (up to 45), 10 (up to 90), 11 (up to 99) or 12 (up to 48) as a factor; multiplying a two- or three-digit number by a one-digit multiplier; solving multi-step word problems using addition and subtraction | Mathematical Reasoning: 1.1, 1.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L3 | Subtracting four-digit numbers with regrouping; recognizing money number words; recognizing the dollar symbol and decimal point; regrouping with money amounts when adding, subtracting or multiplying money amounts | Number Sense: 2.1 |
| L4 | Learning change equivalents up to \$1.00; recognizing coins; solving word problems involving money; calculating change using the least number of coins | Number Sense: 2.1 Mathematical Reasoning: 1.2 |
| L5 | Interpreting circle graphs, picture graphs, bar graphs and line graphs | Algebra / Functions: 1.1 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 2.2, 2.3, 3.1, 3.2, 3.3 |
| L6 | Recognizing the symbols < less than, > greater than; arranging 4 four-digit numbers in order from least to greatest and from greatest to least; filling in missing numbers in sequences counting by 1, 2, 3, 4, 5, 6, 7, 8, 9 or 10 | Mathematical Reasoning: 1.1 |
| L7 | Computing the date; learning 7 days = 1 week; learning the abbreviations for days and months; learning the number of days in each month; learning 1 year = 12 months | Mathematical Reasoning: 1.1, 2.3, 2.4, 2.5, 2.6 |
| L8 | Telling time to the minute; recognizing a quarter past or before the hour or half past the hour; calculating minutes before the hour; learning 60 minutes = 1 hour; calculating elapsed time | Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L9 | Computing one half of a group; recognizing odd and even numbers less than 100 | Number Sense: 2.2 Mathematical Reasoning: 1.2, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L10 | Solving word problems using deductive reasoning; determining if there is sufficient information to answer the question; determining what information is needed to answer the question in a word problem; solving word problems using reasoning | Mathematical Reasoning: 1.1, 1.2, 2.3, 3.1, 3.3 |



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| L11 | Learning division facts with dividends up through 30 and dividends that are multiples of 5 (to 45), 10 (to 90), 11 (to 99) or 12 (to 48); recognizing multiplication and division fact families; learning the terminology for multiplication and division | Number Sense: 2.2 |
| L12 | Estimating standard measurements; reading measuring devices | Measurement / Geometry: 1.4 |
| L13 | Completing patterns in a chart; recognizing ordinal number words up to 100 | Algebra / Functions: 1.1 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 1.1, 1.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L14 | Determining whether statements are true; filling in a missing number in an <i>equation</i> ; determining the value of a letter that has been substituted for a number; solving algebraic equations; selecting the correct operation | Algebra / Functions: 1.1, 1.2, *1.3 |
| L15 | Defining numerator and denominator; determining the fractional part of a group of items when modeled or given in words, including extraneous information or the word "not"; learning that the whole is the sum of its parts; adding and subtracting fractions | Number Sense: 2.3 |
| L16 | Solving word problems involving multiplication and division; learning multiplication facts with products up to 50 | Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L17 | Measuring line segments to the nearest half inch, quarter inch and half centimeter; learning the equivalents for feet, inches and yards | Measurement / Geometry: 1.4 |
| L18 | Filling in missing numbers in equations with parentheses; learning the order of operations when solving an equation; replacing letters with numbers in an equation | Algebra / Functions: 1.1, 1.2 |
| L19 | Changing a number sentence from \neq to $=$; finding the value of an unknown by performing the same operation on both sides of an equation | Algebra / Functions: 1.1, 1.2 |
| L20 | Recognizing three-dimensional figures - sphere, cube, cone, cylinder; rectangular, square and triangular pyramid; rectangular and triangular prism; learning the terminology of flat and curved faces, vertices and edges | Algebra / Functions: 1.1 Measurement / Geometry: 2.1, *2.3 |
| L21 | Dividing a one-digit divisor into a three-digit dividend with a three-digit quotient, no regrouping or remainders | Number Sense: 2.2 |
| L22 | Multiplying 2 two-digit numbers, no regrouping | Number Sense: *2.1 |
| L23 | Adding and subtracting fractions and mixed numbers with like denominators | Number Sense: 2.3 |
| L24 | Multiplying 2 two-digit numbers, regrouping only with the ones or the tens place; learning multiplication facts with products to 81 | Number Sense: *2.1 |

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| L25 | Rounding to the nearest ten, hundred or thousand; estimating the answers for addition, subtraction and multiplication word problems using rounding; estimating range for an answer; rounding numbers so there is only one non-zero digit | Number Sense: 1.1 Statistics, Data Analysis, Probability: *1.1 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L26 | Dividing a one-digit divisor into a three-digit dividend with a two-digit quotient, no regrouping or remainders | Number Sense: 2.2 |
| L27 | Continued – Dividing a one-digit divisor into a three-digit dividend with a two-digit quotient, no regrouping or remainders | Number Sense: 2.2 |
| L28 | Learning division facts with dividends up through 50; learning multiplication facts with products less than 100 with 12 as a factor; recognizing multiples | Number Sense: *1.4, 2.2 |
| L29 | Learning division facts with remainders with dividends up to 30 and dividends with 5 as a factor; solving word problems involving division with remainders | Number Sense: *1.4, 2.2 Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L30 | Measuring angles; learning the sum of the angles for triangles and rectangles; recognizing right, obtuse and acute angles; recognizing equilateral, isosceles and scalene triangles | Measurement / Geometry: 2.1, 2.2 |
| L31 | Determining equivalent fractions using models or money | Number Sense: 1.2, 2.3 |
| L32 | Selecting the correct equation; learning about the Commutative Property of Addition and Commutative Property of Multiplication | Algebra / Functions: 1.1, *1.3 |
| L33 | Dividing a one-digit divisor into a three-digit dividend resulting in a two-digit or three-digit quotient, with regrouping and remainders | Number Sense: 2.2 |
| L34 | Continued – Dividing a one-digit divisor into a three-digit dividend resulting in a two-digit or three-digit quotient, with regrouping and remainders | Number Sense: 2.2 |
| L35 | Learning the terminology of parallel, intersecting and perpendicular, plane figure, polygon, quadrilateral, parallelogram, and diagonal | Algebra / Functions: 1.1 Measurement / Geometry: 2.1 Statistics, Data Analysis, Probability: 1.2 |
| L36 | Multiplying 2 two-digit numbers, regrouping twice | Number Sense: *2.1, 2.2 |
| L37 | Recognizing true and not true number sentences; selecting the correct symbol for a number sentence; using trial and error to replace unknowns in an equation | Algebra / Functions: 1.1, 1.2 |

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| L38 | Determining the lowest common multiple; learning multiplication facts with products with 11 (up to 121) and 12 (up to 144) as a factor; learning division facts with remainders with dividends up to 50 | Number Sense: *1.4 |
| L39 | Calculating equivalent fractions using multiplication | Number Sense: *2.3, 2.4, 2.5 |
| L40 | Comparing two or more sets of data using bar or line graphs; interpreting information given in a histogram | Statistics, Data Analysis, Probability: 1.2, *1.3 Mathematical Reasoning: 3.1, 3.2, 3.3 |
| L41 | Rounding to the nearest dollar; dividing money amounts by a one-digit divisor | Number Sense: 1.1, 1.5 |
| L42 | Recognizing patterns; learning the terminology of pentagon, hexagon, and octagon; determining figures that do or do not belong in a set | Measurement / Geometry: 1.4 Mathematical Reasoning: 1.1 |
| L43 | Comparing fractions; putting simple fractions in order from least to greatest and greatest to least | Number Sense: 2.3 |
| L44 | Computing $\frac{1}{2}$ to $\frac{1}{9}$ of a group of items | Number Sense: 2.2, 2.3 Mathematical Reasoning: 1.1, 1.2, 2.3 |
| L45 | Recognizing when figures are similar or congruent; recognizing flips, slides and turns; recognizing lines of symmetry; recognizing bilateral and rotational symmetry; recognizing the symbol for a triangle | Measurement / Geometry: 2.1 Mathematical Reasoning: 1.1, 1.2, 2.3 |
| L46 | Dividing a one-digit divisor into a four-digit dividend with a three-digit quotient and a zero in the tens place | Number Sense: 2.2 |
| L47 | Continued – Dividing a one-digit divisor into a four-digit dividend with a three-digit quotient and a zero in the tens place | Number Sense: 2.2 |
| L48 | Learning measurement equivalents for centimeters, meters, kilometers, kilograms, liters, milliliters, millimeters, gallons, pounds, tons, dozens; converting measurements using multiplication; determining the measurement that is longer or shorter or heavier or lighter | Measurement / Geometry: *1.3, *1.4 |
| L49 | Dividing with a two-digit divisor and a dividend less than 100 with remainders; learning division facts with dividends up to 81 and less than 100 with 12 as a factor | Number Sense: 1.4, 2.2 |
| L50 | Adding and subtracting fractions with unlike denominators | Number Sense: 2.3 |
| L51 | Learning the equivalent for one year in days and in weeks; learning about leap year; calculating elapsed time crossing months | Number Sense: 2.2 Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L52 | Determining coordinate points | Algebra / Functions: 1.1, 1.2, 1.4, *1.5 Statistics, Data Analysis, Probability: 1.5 |
| L53 | Using Venn Diagrams to understand the union and intersection of sets | Algebra / Functions: 1.1 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 1.1, 1.2 |

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|--------------------------------|--|--|
| L54 | Calculating perimeters; learning length abbreviations | Measurement / Geometry: 1.4 |
| L55 | Recognizing multiplication without the “x” symbol; calculating the answer to a word problem using 2 to 1 and 5 to 1 ratios | Algebra / Functions: 1.1, 1.2 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 1.1, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L56 | Calculating the area of a rectangle | Measurement / Geometry: 1.1, 1.4 |
| L57 | Calculating elapsed time (hours) involving AM and PM | Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L58 | Solving word problems by listing the possibilities; converting measurements using division | Algebra / Functions: 1.5 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2 |
| L59 | Calculating equivalent fractions using division | Number Sense: 2.2, *2.3, 2.4, 2.5 |
| L60 | Determining the probability of an event | Statistics, Data Analysis, Probability: 1.2, 1.3 Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L61 | Determining factors | Number Sense: 1.4 |
| L62 | Determining composite numbers, prime numbers and prime factors | Number Sense: 1.4 |
| L63 | Solving word problems involving area and perimeter | Number Sense: 2.2 Measurement / Geometry: 1.4 |
| L64 | Measuring vertical and horizontal lines by subtracting X- and Y-coordinates | Algebra / Functions: 1.4, 1.5 Statistics, Data Analysis, Probability: 1.4, 1.5 |
| L65 | Recognizing tenths and hundredths places; recognizing decimal number words; writing decimal numbers as mixed numbers; writing mixed numbers as decimals | Number Sense: *1.2, *1.5 |
| L66 | Adding and subtracting decimal numbers | Number Sense: *1.5, 2.1 |
| L67 | Comparing U.S. customary and metric units | Measurement / Geometry: 1.3, 1.4 |
| L68 | Changing an improper fraction to a mixed or whole number | Number Sense: 2.3 |
| L69 | Adding and subtracting fractions in word problems | Number Sense: 2.3 Mathematical Reasoning: 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L70 | Determining the question when given the information and the answer; estimating which answer is most reasonable | Mathematical Reasoning: 1.1, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L71 | Learning the terminology of rhombus and trapezoid; learning division facts with remainders with dividends to 81 | Number Sense: 2.2 Measurement / Geometry: *1.1, *2.1 |
| L72 | Calculating the volume of a rectangular prism with one or more layers of cubes | Measurement / Geometry: 1.3, 1.4 |
| L73 | Calculating elapsed time in minutes across the 12 on the clock; learning division facts with dividends up to 121 with 11 as a factor and up to 144 with 12 as a factor | Number Sense: 2.2 Algebra / Functions: 1.1 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L74 | Calculating distance, time and speed in word problems | Number Sense: 2.2 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |

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|--------------------------|--|---|
| L75 | Recognizing parts of a circle; calculating the diameter given the radius; associating the 360 degrees in a circle with one-quarter, one-half, three-quarter and full turns | Measurement / Geometry: 2.1, 2.2 |
| L76 | Simplifying fractions | Number Sense: 2.3 |
| L77 | Converting improper fractions as part of mixed numbers; recognizing division without the ÷ symbol | Number Sense: 2.3 Algebra / Functions: 1.2 |
| L78 | Determining the improper fraction with the greatest or least value in a set of fractions; putting fractions in order from least to greatest and greatest to least | Number Sense: * 1.5, 2.3 |
| L79 | Dividing dollars by dollars | Number Sense: 2.1, 2.2 |
| L80 | Recognizing numbers up through trillions; recognizing numbers given in expanded notation | Number Sense: 1.1 |
| L81 | Multiplying a decimal number by a whole number | Number Sense: *1.5, 2.1 |
| L82 | Estimating answers to problems involving numbers with up to nine digits; solving equations involving decimals | Number Sense: 1.1, 2.1 Algebra / Functions: 1.2 Mathematical Reasoning: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L83 | Converting fractions and decimals to percents by setting up equivalent fractions | Number Sense: 1.2, *1.5, 2.2, 2.4, 2.5 |
| L84 | Calculating the volume of a rectangular prism using the formula $L \times W \times H$ | Measurement / Geometry: *1.2, 1.3, 1.4 |
| L85 | Comparing decimal numbers in true and not true statements; comparing decimal numbers in less than and greater than problems | Number Sense: 1.2, *1.5 |
| L86 | Recognizing the pattern in a sequence of figures or pattern of shading | Number Sense: 2.2 Mathematical Reasoning: 1.1 |
| L87 | Recognizing three-digit odd and even numbers; filling in missing numbers in sequences counting by 11 or 12 | Mathematical Reasoning: 1.1 |
| L88 | Determining the greatest common factor | Number Sense: 1.4 |
| L89 | Comparing positive and negative numbers | Number Sense: Number Sense: 1.5 |
| L90 | Determining if coordinate points are on a given line | Algebra / Functions: 1.4 Statistics, Data Analysis, Probability: 1.4, 1.5 |
| L91 | Determining numbers that are multiples of one number and factors of another | Number Sense: 1.4 |
| L92 | Estimating to the nearest dollar or whole number | Number Sense: 1.1, 2.1 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L93 | Determining if a number is a prime number | Number Sense: 1.4 |
| L94 | Dividing a decimal number by a whole number | Number Sense: 2.1, 2.2 |
| L95 | Calculating area and perimeter given coordinates on a coordinate grid; calculating the perimeter of an irregular figure | Algebra / Functions: 1.4, 1.5 Measurement / Geometry: 1.4 Statistics, Data Analysis, Probability: 1.4, 1.5 |

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|--------------------------------|--|--|
| L96 | Learning the Distributive Property of Multiplication and the Associative Property of Multiplication and Addition; learning the Property of One and Zero Property | Algebra / Functions: 1.3 |
| L97 | Calculating cost per unit | Number Sense: *2.1, *2.2 Algebra / Functions: 1.5 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 1.2, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L98 | Putting decimal numbers in order from least to greatest and greatest to least | Number Sense: *1.5 |
| L99 | Simplifying improper fractions as part of mixed number answers | Number Sense: 2.3 |
| L100 | Calculating a decimal answer in division problems when zeroes need to be added to the right of the dividend; solving word problems involving decimals | Number Sense: 1.2, 2.1, 2.2 |
| L101 | Dividing using short division | Number Sense: 2.2 |
| L102 | Calculating averages | Number Sense: 2.2 Statistics, Data Analysis, Probability: 1.1 Mathematical Reasoning: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L103 | Continuing to calculate averages; learning the abbreviations for quarts, gallons, kilograms, grams, pounds, ounces, liters, milliliters and millimeters | Number Sense: 2.2 Statistics, Data Analysis, Probability: 1.1 Mathematical Reasoning: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L104 | Filling in missing numbers in sequences counting by varying amounts | Mathematical Reasoning: 1.1, |
| L105 | Comparing fractions in less than and greater than problems and in true and not true equations by setting up equivalent fractions; comparing fractions in word problems | Number Sense: *1.2 Mathematical Reasoning: 2.3, 2.4, 2.5, 3.1, 3.2, 3.3 |
| L106 | Selecting the fraction that best represents a shaded region | Number Sense: 1.2, 2.3 |
| L107 | Multiplying a three-digit whole or decimal number or money amount by a two-digit number | Number Sense: 2.1, 2.2 |
| L108 | Recognizing Roman Numerals: I, V, X, L, C, D and M | Number Sense: 1.1 Mathematical Reasoning: 1.1 |
| L109 | Determining percent in word problems | Number Sense: 1.2, 2.4 |
| L110 | Multiplying fractions and whole numbers by fractions | Number Sense: 2.4, 2.5 |
| L111 | Filling in missing numbers in a sequence of decimal numbers | Number Sense: 1.5, 2.2 |
| L112 | Converting percents to decimals; computing the percent of a whole number | Number Sense: 1.2 |
| L113 | Converting mixed numbers to decimal numbers by setting up equivalent fractions | Number Sense: 1.2, 2.4 |

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|--------------------------|---|--|
| L114 | Reading maps drawn to scale | Number Sense: 2.1 Algebra / Functions: 1.1 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L115 | Calculating the mean, median and mode; stem and leaf plots | Algebra / Functions: 1.1 Statistics, Data Analysis, Probability: 1.1, 1.2 |
| L116 | Solving problems using data displayed as percent pie graphs | Number Sense: 1.2 Algebra / Functions: 1.1 Statistics, Data Analysis, Probability: 1.2, 1.3 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L117 | Writing probabilities as lowest-terms fractions | Number Sense: 1.2, 2.2, 2.4, 2.5 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3 |
| L118 | Determining the reciprocal of a whole number or fraction | Number Sense: 2.4, 2.5 |
| L119 | Dividing a three-digit divisor into a three- or four-digit dividend with a one-digit quotient | Number Sense: 2.2 Mathematical Reasoning: 2.1 |
| L120 | Determining where to place the decimal when multiplying and dividing decimal numbers by powers of ten | Number Sense: 1.3 |
| L121 | Recognizing the thousandths place; rounding decimal numbers to the nearest tenth or hundredth | Number Sense: 1.1, *1.5, 2.2 |
| L122 | Subtracting fractions with regrouping | Number Sense: 2.3 |
| L123 | Determining negative numbers using coordinate points | Number Sense: 1.5 Algebra / Functions: 1.4 Statistics, Data Analysis, Probability: 1.4, 1.5 |
| L124 | Determining the equation that represents a problem and the equation that solves it | Algebra / Functions: 1.2, *1.5 |
| L125 | Selecting the decimal or percent that best represents a shaded region | Number Sense: 1.2, *1.5 |
| L126 | Using multiplication and division to cross simplify fraction problems | Number Sense: 2.4, 2.5 Algebra / Functions: 1.3 |
| L127 | Converting mixed numbers to improper fractions | Number Sense: 2.3 |
| L128 | Dividing a two-digit divisor into a three-digit dividend with a two-digit quotient | Number Sense: 2.2 |
| L129 | Dividing fractions | Number Sense: 2.4, 2.5 |
| L130 | Solving word problems involving percent | Number Sense: 1.2 Mathematical Reasoning: 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L131 | Computing products involving two decimal numbers | Number Sense: 2.1, 2.2 |
| L132 | Continued – Computing products involving two decimal numbers | Number Sense: 2.1, 2.2 |
| L133 | Solving word problems involving the multiplication of fractions | Number Sense: 2.4, 2.5 Mathematical Reasoning: 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, 3.3 |
| L134 | Calculating the area of a parallelogram | Measurement / Geometry: 1.1, 1.4 |

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|--------------------------|--|---|
| L135 | Calculating averages involving decimals or fractions | Number Sense: 2.4, 2.5 Statistics, Data Analysis, Probability: 1.1 |
| L136 | Converting fractions to decimals using division | Number Sense: 2.1 |
| L137 | Calculating the surface area of a rectangular prism | Measurement / Geometry: *1.2, 1.4, *2.3 |
| L138 | Calculating using exponents | Number Sense: 1.3 |
| L139 | Multiplying a three-digit number by a three-digit number | Number Sense: *2.2 |
| L140 | Identifying the equation that represents a line on a coordinate graph | Algebra / Functions: 1.4, 1.5 Statistics, Data Analysis, Probability: 1.4, 1.5 |
| L141 | Dividing a two-digit divisor into a three-digit dividend with a one-digit quotient | Number Sense: *1.4, 2.2 |
| L142 | Computing expected numbers based on probabilities | Number Sense: 1.2, 2.2, 2.4, 2.5 Mathematical Reasoning: 1.1, 1.2, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3 |
| L143 | Determining the rule that creates a pattern | Measurement / Geometry: 1.2, *1.4, *1.5 Statistics, Data Analysis, Probability: 1.2, 1.4 Mathematical Reasoning: 1.1, 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| L144 | Calculating the area of a triangle | Number Sense: 2.4, 2.5 Measurement / Geometry: 1.1 |
| L145 | Calculating the circumference and area of a circle; recognizing π (pi) and squared | Measurement / Geometry: 1.4 |
| L146 | Simplifying division problems using powers of ten | Number Sense: 1.3, 2.2 |
| L147 | Dividing a decimal number by a decimal number | Number Sense: 2.1 |
| L148 | Arranging fractions, decimals and mixed numbers on a number line | Number Sense: 1.5 |
| L149 | Computing sales tax | Number Sense: 1.2, 2.1 |
| L150 | Adding positive and negative integers | Number Sense: 1.5, 2.1 |
| L151 | Continued – Adding positive and negative integers | Number Sense: 1.5, 2.1 |
| L152 | Calculating the area of an irregular figure | Measurement / Geometry: 1.4 |
| L153 | Multiplying and dividing mixed numbers | Number Sense: 2.4, 2.5 |
| L154 | Subtracting positive and negative integers | Number Sense: *1.5, 2.1 |
| L155 | Continued – Subtracting positive and negative integers | Number Sense: *1.5, 2.1 |
| Activity 1 | Deductive Reasoning 1 – Rearranging | Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2, |
| Activity 2 | Deductive Reasoning 2 - Making Notes | Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2 |
| Activity 3 | Deductive Reasoning 3 - Numerical | Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2 |
| Activity 4 | Deductive Reasoning 4 – Charts | Mathematical Reasoning: 1.1, 1.2, 2.2, 2.3, 2.4, 2.6, 3.1, 3.2 |
| Activity 5 | Using Calculators | Mathematical Reasoning: 1.1, 2.1, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| Activity 6 | Probability Problems | Statistics, Data Analysis, Probability: 1.2, *1.3 Mathematical Reasoning: 1.1, 2.1, 2.2, 2.3, 2.4, 2.5, 3.1, 3.2, 3.3 |

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|--------------------------|-----------------------------|--|
| Activity 7 | Estimating Money Amounts | Number Sense: *2.1 Mathematical Reasoning: 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3 |
| Activity 8 | Area & Perimeter | Measurement / Geometry: 1.4, 2.3 |
| Activity 9 | Surface Area & Volume | Measurement / Geometry: 1.2, 1.3, 1.4 |
| Activity 10 | 3-Dimensional Figures | Measurement / Geometry: 1.1, 2.1, 2.3 |
| Activity 11 | Comparing 3-D Figures | Measurement / Geometry: 2.1, 2.3 Statistics, Data Analysis, Probability: 1.2 Mathematical Reasoning: 1.1, 2.3, 2.4 |
| Activity 12 | Creating 3-D Figures | Measurement / Geometry: 2.3 |
| Activity 13 | Comparing Volumes | Measurement / Geometry: 1.3, 1.4, 2.3 |
| Activity 14 | Percent Problems | Number Sense: 1.2 |

| Standards / Objectives | Excel Math Lesson Numbers | Stretch Lesson Numbers Activity Numbers |
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| NUMBER SENSE | | |
| 1. Students compute with very large and very small numbers, positive and negative numbers, decimals and fractions and understand the relationship between decimals, fractions and percents. They understand the relative magnitudes of numbers. | | |
| 1.1 Estimate, round, and manipulate very large (e.g., millions) and very small (e.g., thousandths) numbers | 1, 25, 41, 80, 82, 92, 108, 121 | 52, 70, 74, 144 |
| 1.2 Interpret percents as part of a hundred; find decimal and percent equivalents for common fractions; explain why they represent the same value; and compute a given percent of a whole number | 30, *65, 83, 85, 100, *105, *106, 109, 112, *113, 116, 117, 125, 130, 142, 149 | 128 Activity 14 |
| 1.3 Understand and compute positive integer powers of non-negative integers; compute examples as repeated multiplication | 120, 138, 146 | |
| 1.4 Determine the prime factors of all numbers through 50 and write numbers as the product of their prime factors using exponents to show multiples of a factor (e.g., $24 = 2 \times 2 \times 2 \times 3 = 2^3 \times 3$) | 61, 62, 88, 91, 93 Fact Families: 1, 11, 73 Multiples: 28, 29, 38, 49, 91, 141 | |
| 1.5 Identify and represent positive and negative integers, decimals, fractions and mixed numbers on a number line | 41, *65, *66, *78, *81, *83, *85, 89, *98, *111, *121, 123, *125, 148, 150, 151, *154, *155 | *82, *91, *97 |
| 2. Students perform calculations and solve problems involving addition, subtraction and simple multiplication and division of fractions and decimals. | | |
| 2.1 Add, subtract, multiply and divide with decimals and negative numbers and verify the reasonableness of the results | Whole numbers and decimals: 3, 4, 66, 79, 81, 82, 92, 94, *97, 100, 107, 114, 120, 131, 132, 136, 147, 149 Whole numbers: 22, 24, 36, 73 Negative numbers: 150, 151, 154, 155 | 64, 79, 80, 89, 119, 121, 129, 130 Activity *7 |
| 2.2 Are proficient with division, including division with positive decimals and long division with multiple digit divisors | 9, 11, 21, 26, 27, 28, 29, 33, 34, 36, 44, 46, 47, 49, 51, 59, 63, 73, 71, 74, 79, 83, 86, 94, *97, 100, 101, 102, 103, 107, 111, 117, 119, 121, 128, 131, 132, 141, 142, 146 Multiplication: 22, 24, 28, 36, 49, 107, 120, 139 | 98, 99, 125, 127 |

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| 2.3 Solve simple problems including ones arising in concrete situations involving the addition and subtraction of fractions and mixed numbers (like and unlike denominators of 20 or less) and express answers in simplest form | 15, 23, 43, 44, 50, 69, 76, 77, 78, 99, 106, 122, 127 Equivalents: 30, 39, 59, 68 | 11, 17, 19, 44, 132, 133 |
| 2.4 Understand the concept of multiplication and division of fractions | 39, 59, 83, 109, 110, 113, 117, 118, 126, 129, 133, 135, 142, 144, 153 | |
| 2.5 Compute and perform simple multiplication and division of fractions and apply these procedures to solving problems | 39, 59, 83, 110, 117, 118, 126, 129, 133, 135, 142, 144, 153 | |
| ALGEBRA AND FUNCTIONS | | |
| 1. Students use variables in simple expressions, compute the value of the expression for specific values of the variable, and plot and interpret the results. | | |
| 1.1 Use information taken from a graph or equation to answer questions about a problem situation | 5, 13, 14, 18, 19, 20, 32, 35, 37, 40, 52, 53, 55, 60, 73, 114, 115, 116, 143 | 1, 3, 4, 5, 11, 12, 31, 117, 126, 135 |
| 1.2 Use a letter to represent an unknown number; write and evaluate simple algebraic expressions in one variable by substitution | 14, 18, 19, 37, 52, 55, 77, 82, 124, 143 | *1, *2, *3, 4, *12, 13, 17, 20, 21, 32, 41, 52, 61, 69, 74, 81, 85, 94, 107, 110 |
| 1.3 Know and use the distributive property in equations and expressions with variables | *14, 96 Associative: 96 Commutative: 32, 84, 126 | |
| 1.4 Identify and graph ordered pairs in the four quadrants of the coordinate plane | 52, 64, 90, 95, *123, 140, *143 | |
| 1.5 Solve problems involving linear functions with integer values, write the equation, and graph the resulting ordered pairs of integers on a grid. | *52, 58, 64, 95, 97, *124, 140, *143 | *2, *3, *4, 5, 9, *12, 31, *52, *44, *61, *74, 84, *103, *107, *110, *120, *124, *125, *127, *130, *147 |

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MEASUREMENT AND GEOMETRY

| 1. Students understand and compute volumes and areas of simple objects. | | |
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| 1.1 Derive and use the formula for the area of right triangles and of parallelograms by comparing with the area of rectangles (i.e., two of the same triangles make a rectangle with twice the area; a parallelogram is compared to a rectangle with the same area found by cutting and pasting a right triangle) | 56, *71, 134, 144 | 22, 25, *34, 40, *43, *71, *73, 106, *112, *136, 139, 140, 147 Activity 10 |
| 1.2 Construct cube and rectangular boxes from two-dimensional patterns and use this to compute the surface area for these objects | *84, *137 | 73, 76, 93 Activity 9 |
| 1.3 Understand the concept of volume and use the appropriate units in common measuring systems (cubic centimeter ³ , cubic meter ³ , cubic inches ³ , cubic yard ³) to compute the volume of rectangular solids | *48, *67, 72, 84 | 14, 122, 144 Activity 9, 13 |
| 1.4 Differentiate between and use appropriate units of measures for, two- and three-dimensional objects (perimeter, area and volume) | 12, 17, 42, *48, 54, 56, 63, *67, 72, 84, 95, 134, 137, 145, 152 | 14, 99, 106, 115, 122, 138, 139, 140, 144, 147 Activity 8, 9, 13 |
| 2. Students identify, describe, draw and classify properties of, and relationships between, plane and solid geometric figures. | | |
| 2.1 Measure, identify and draw angles, perpendicular and parallel lines, rectangles and triangles, using appropriate tools (e.g., straight edge, ruler, compass, protractor and drawing software) | 20, 30, 35, 45, *71, 75 | 15, 49, 50, 61, 63, 73, 78, 85, 88, 100, 104, 128 Activity 10, 11 |
| 2.2 Know that the sum of the angles of any triangle is 180 and the sum of the angles of any quadrilateral is 360 and use this information to solve problems | 30, 75 | |
| 2.3 Visualize and draw two-dimensional views of three-dimensional objects made from rectangular solids | *20, *137 | Activity 8, 10, 11, 12, 13 |

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STATISTICS, DATA ANALYSIS AND PROBABILITY

| 1. Students display, analyze, compare and interpret different data sets, including data sets that are not the same size. | | |
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| 1.1 Know the concepts of mean, median, and mode; compute and compare them in simple examples and notice that they can differ | 115 Range: 25 Ratios: 55 Averages: 102, 103, 135 | Averages: 130 Ratios: 137 |
| 1.2 Organize and display single-variable data in appropriate graphs and representations (e.g., histogram, circle graphs) and explain which types of graphs are appropriate for different kinds of data sets | 5, 13, 20, 35, 40, 53, 55, 60, 97, 115, 116, 143 | *55, 65, 66, 84, 102, 117, 126, 135 Activity 6, 11 |
| 1.3 Use fractions and percentages to compare data sets of different size | 60, 142 | Activity *6 |
| 1.4 Identify ordered pairs of data from a graph and interpret the meaning of the data in terms of the situation depicted by the graph | 64, 90, 95, 123, 140, 143 | |
| 1.5 Know how to write ordered pairs correctly (e.g., (x, y)) | 52, 64, 90, 95, 123, 140 | |

MATHEMATICAL REASONING

| 1. Students make decisions about how to approach problems. | | |
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| 1.1 Analyze problems by identifying relationships, discriminating relevant from irrelevant information, sequencing and prioritizing and observing patterns | 2, 6, 7, 8, 10, 13, 16, 25, 29, 32, 42, 44, 51, 53, 55, 57, 58, 60, 70, 73, 74, 86, 87, 92, 104, 108, 114, 116, 117, 142, 143 | 2, 3, 6, 7, 9, 10, 11, 14, 16, 17, 19, 23, 24, 26, 27, 28, 29, 30, 33, 35, 36, 37, 38, 39, 42, 45, 46, 47, 48, 51, 53, 54, 55, 56, 57, 58, 59, 61, 62, 64, 65, 66, 67, 68, 69, 70, 72, 75, 77, 79, 80, 83, 84, 85, 89, 90, 95, 96, 98, 101, 102, 105, 108, 111, 114, 115, 116, 117, 118, 119, 120, 121, 123, 124, 125, 127, 128, 131, 132, 134, 141, 142, 145, 146, 148 Activity 1, 2, 3, 4, 5, 6, 11 |

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| 1.2 Determine when and how to break a problem into simpler parts | 2, 4, 8, 9, 10, 13, 16, 25, 29, 32, 44, 51, 53, 57, 58, 60, 65, 70, 73, 74, 92, 97, 114, 116, 117, 142 | 2, 3, 6, 10, 11, 12, 14, 17, 19, 23, 26, 27, 28, 29, 30, 33, 35, 36, 37, 38, 39, 42, 46, 51, 54, 55, 56, 58, 61, 64, 65, 66, 67, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 113, 114, 115, 118, 119, 120, 121, 123, 124, 125, 127, 128, 132 Activity 1, 2, 3, 4 |
| 2. Students use strategies, skills and concepts in finding solutions. | | |
| 2.1 Use estimation to verify the reasonableness of calculated results | 8, 16, 25, 32, 57, 58, 70, 73, 74, 82, 92, 102, 103, 114, 116, 117, 119, 142, 143 | 2, 3, 8, 9, 12, 14, 17, 19, 20, 23, 27, 29, 33, 35, 55, 58, 61, 66, 67, 68, 69, 70, 72, 74, 79, 80, 89, 95, 98, 103, 113, 114, 115, 116, 117, 119, 120, 121, 124, 132 Activity 5, 6, 7 |
| 2.2 Apply strategies and results from simpler problems to more complex problems | 5, 8, 9, 16, 25, 29, 32, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 116, 114, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 27, 29, 30, 33, 35, 37, 38, 39, 42, 46, 51, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 102, 114, 115, 117, 120, 121, 123, 124, 125, 127, 128, 132 Activity 1, 2, 3, 4, 6, 7 |
| 2.3 Use a variety of methods such as words, numbers, symbols, charts, graphs, tables, diagrams and models to explain mathematical reasoning | 2, 5, 7, 8, 9, 10, 13, 16, 25, 29, 32, 44, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 105, 114, 116, 117, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 27, 29, 30, 33, 35, 37, 38, 39, 42, 46, 51, 53, 54, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 102, 114, 115, 117, 120, 121, 123, 124, 125, 127, 128, 132 Activity 1, 2, 3, 4, 5, 6, 7, 11 |
| 2.4 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 | 2, 7, 8, 9, 13, 16, 25, 29, 32, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 105, 114, 116, 117, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 27, 29, 30, 33, 35, 37, 38, 39, 42, 46, 51, 53, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 102, 114, 115, 117, 120, 121, 123, 124, 125, 127, 128, 132 Activity 1, 2, 3, 4, 5, 6, 7, 11 |

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| 2.5 Indicate the relative advantages of exact and approximate solutions to problems and give answers to a specified degree of accuracy | 7, 8, 9, 16, 25, 29, 57, 58, 60, 69, 70, 73, 82, 92, 97, 102, 103, 105, 114, 116, 117, 142, 143 | 2, 3, 5, 8, 10, 11, 12, 14, 17, 19, 23, 26, 27, 29, 30, 33, 35, 37, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 102, 114, 115, 117, 120, 121, 124, 127, 132 Activity 5, 6, 7 |
| 2.6 Make precise calculations and check the validity of the results from the context of the problem | 2, 7, 8, 9, 13, 16, 25, 29, 32, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 114, 116, 130, 133, 143 | 2, 3, 5, 8, 10, 11, 12, 14, 17, 19, 29, 33, 35, 54, 55, 56, 58, 61, 64, 66, 67, 70, 72, 74, 79, 80, 89, 95, 98, 120, 121, 124, 125, 127, 128 Activity 1, 2, 3, 4, 5, 7 |
| 3. Students move beyond a particular problem by generalizing to other situations. | | |
| 3.1 Evaluate the reasonableness of the solution in the context of the original situation | 2, 5, 8, 9, 10, 13, 16, 25, 29, 32, 40, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 105, 114, 116, 117, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 29, 30, 31, 33, 35, 37, 38, 39, 42, 46, 51, 53, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 114, 115, 117, 120, 121, 123, 124, 125, 128 Activity 1, 2, 3, 4, 5, 6, 7 |
| 3.2 Note method of deriving the solution and demonstrate conceptual understanding of the derivation by solving similar problems | 2, 5, 8, 9, 13, 16, 25, 29, 32, 40, 51, 55, 57, 58, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 105, 114, 116, 117, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 29, 30, 31, 33, 35, 37, 38, 39, 42, 46, 51, 53, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 114, 115, 117, 120, 121, 123, 124, 125, 128 Activity 1, 2, 3, 4, 5, 6, 7 |
| 3.3 Develop generalizations of the results obtained and extend them to other circumstances | 2, 5, 8, 9, 10, 13, 16, 15, 29, 32, 40, 51, 55, 57, 60, 69, 70, 73, 74, 82, 92, 97, 102, 103, 105, 114, 116, 117, 130, 133, 142, 143 | 2, 3, 5, 6, 8, 10, 11, 12, 14, 17, 19, 23, 26, 29, 30, 31, 33, 35, 37, 38, 39, 42, 46, 51, 53, 54, 55, 56, 58, 61, 62, 64, 65, 66, 67, 68, 70, 72, 74, 75, 79, 80, 83, 89, 90, 95, 98, 114, 115, 117, 120, 121, 123, 124, 125, 128 Activity 5, 6, 7 |