

Mapping of Money Savvy Kids Curriculum to Common Core State Standards - MATHEMATICS
Level D (3-4)

Operations & Algebraic Thinking

Level D

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| Represent and solve problems involving multiplication and division. | |
| 3.OA.1. Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each. | |
| 3.OA.2. Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. | X |
| 3.OA.3. Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. | X |
| 3.OA.4. Determine the unknown whole number in a multiplication or division equation relating three whole numbers. | |
| Understand properties of multiplication and the relationship between multiplication and division. | |
| 3.OA.5. Apply properties of operations as strategies to multiply and divide. | X |
| 3.OA.6. Understand division as an unknown-factor problem. | X |
| Multiply and divide within 100. | |
| 3.OA.7. Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers. | |
| Solve problems involving the four operations, and identify and explain patterns in arithmetic. | |
| 3.OA.8. Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. | X |
| 3.OA.9. Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. | |
| Use the four operations with whole numbers to solve problems. | |
| 4.OA.1. Interpret a multiplication equation as a comparison, e.g., interpret $35 = 5 \times 7$ as a statement that 35 is 5 times as many as 7 and 7 times as many as 5. Represent verbal statements of multiplicative comparisons as multiplication equations. | |
| 4.OA.2. Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison. | X |
| 4.OA.3. Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. | |
| Gain familiarity with factors and multiples. | |

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Level D (3-4)

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| 4.OA.4. Find all factor pairs for a whole number in the range 1–100. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1–100 is a multiple of a given one-digit number. Determine whether a given whole number in the range 1–100 is prime or composite. | |
| Generate and analyze patterns. | |
| 4.OA.5. Generate a number or shape pattern that follows a given rule. Identify apparent features of the pattern that were not explicit in the rule itself. | |

Number & Operations in Base Ten

Level D

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| Generalize place value understanding for multi-digit whole numbers. | |
| 4.NBT.1. Recognize that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. | |
| 4.NBT.2. Read and write multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols to record the results of comparisons. | |
| 4.NBT.3. Use place value understanding to round multi-digit whole numbers to any place. | |
| Use place value understanding and properties of operations to perform multi-digit arithmetic. | |
| 3.NBT.1. Use place value understanding to round whole numbers to the nearest 10 or 100. | |
| 3.NBT.2. Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction. | X |
| 3.NBT.3. Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80 , 5×60) using strategies based on place value and properties of operations. | |
| 4.NBT.4. Fluently add and subtract multi-digit whole numbers using the standard algorithm. | X |
| 4.NBT.5. Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. | |
| 4.NBT.6. Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. | X |

Number & Operations–Fractions

Level D

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| Develop understanding of fractions as numbers. | |
| 3.NF.1. Understand a fraction $1/b$ as the quantity formed by 1 part when a whole is partitioned into b equal parts; understand a fraction a/b as the quantity formed by a parts of size $1/b$. | |
| 3.NF.2. Understand a fraction as a number on the number line; represent fractions on a number line diagram. | |
| 3.NF.3. Explain equivalence of fractions in special cases, and compare fractions by reasoning about their size. | |

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Level D (3-4)

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| Extend understanding of fraction equivalence and ordering. | |
| 4.NF.1. Explain why a fraction a/b is equivalent to a fraction $(n \times a)/(n \times b)$ by using visual fraction models, with attention to how the number and size of the parts differ even though the two fractions themselves are the same size. Use this principle to recognize and generate equivalent fractions. | |
| 4.NF.2. Compare two fractions with different numerators and different denominators, e.g., by creating common denominators or numerators, or by comparing to a benchmark fraction such as $1/2$. Recognize that comparisons are valid only when the two fractions refer to the same whole. Record the results of comparisons with symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual fraction model. | |
| Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. | |
| 4.NF.3. Understand a fraction a/b with $a > 1$ as a sum of fractions $1/b$. | |
| 4.NF.4. Apply and extend previous understandings of multiplication to multiply a fraction by a whole number. | |
| Understand decimal notation for fractions, and compare decimal fractions. | |
| 4.NF.5. Express a fraction with denominator 10 as an equivalent fraction with denominator 100, and use this technique to add two fractions with respective denominators 10 and 100. | |
| 4.NF.6. Use decimal notation for fractions with denominators 10 or 100. | |
| 4.NF.7. Compare two decimals to hundredths by reasoning about their size. Recognize that comparisons are valid only when the two decimals refer to the same whole. Record the results of comparisons with the symbols $>$, $=$, or $<$, and justify the conclusions, e.g., by using a visual model. | |

Measurement & Data

Level D

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| Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. | |
| 3.MD.1. Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram. | |
| 3.MD.2. Measure and estimate liquid volumes and masses of objects using standard units of grams (g), kilograms (kg), and liters (l). Add, subtract, multiply, or divide to solve one-step word problems involving masses or volumes that are given in the same units, e.g., by using drawings (such as a beaker with a measurement scale) to represent the problem. | |
| Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. | |
| 4.MD.1. Know relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec. Within a single system of measurement, express measurements in a larger unit in terms of a smaller unit. Record measurement equivalents in a two-column table. | |
| 4.MD.2. Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects, and money, including problems involving simple fractions or decimals, and problems that require expressing measurements given in a larger unit in terms of a smaller unit. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale. | |
| 4.MD.3. Apply the area and perimeter formulas for rectangles in real world and mathematical problems. | |
| Represent and interpret data. | |

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| 3.MD.3. Draw a scaled picture graph and a scaled bar graph to represent a data set with several categories. Solve one- and two-step “how many more” and “how many less” problems using information presented in scaled bar graphs. | |
| 3.MD.4. Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units– whole numbers, halves, or quarters. | |
| 4.MD.4. Make a line plot to display a data set of measurements in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$). Solve problems involving addition and subtraction of fractions by using information presented in line plots. | |
| Geometric measurement: understand concepts of area and relate area to multiplication and to addition. | |
| 3.MD.5. Recognize area as an attribute of plane figures and understand concepts of area measurement. | |
| 3.MD.6. Measure areas by counting unit squares (square cm, square m, square in, square ft, and improvised units). | |
| 3.MD.7. Relate area to the operations of multiplication and addition. | |
| Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures. | |
| 3.MD.8. Solve real world and mathematical problems involving perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length, and exhibiting rectangles with the same perimeter and different areas or with the same area and different perimeters. | |
| Geometric measurement: understand concepts of angle and measure angles. | |
| 4.MD.5. Recognize angles as geometric shapes that are formed wherever two rays share a common endpoint, and understand concepts of angle measurement. | |
| 4.MD.6. Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure. | |
| 4.MD.7. Recognize angle measure as additive. When an angle is decomposed into non-overlapping parts, the angle measure of the whole is the sum of the angle measures of the parts. Solve addition and subtraction problems to find unknown angles on a diagram in real world and mathematical problems, e.g., by using an equation with a symbol for the unknown angle measure. | |

Geometry

Level D

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| Reason with shapes and their attributes. | |
| 3.G.1. Understand that shapes in different categories (e.g., rhombuses, rectangles, and others) may share attributes (e.g., having four sides), and that the shared attributes can define a larger category (e.g., quadrilaterals). Recognize rhombuses, rectangles, and squares as examples of quadrilaterals, and draw examples of quadrilaterals that do not belong to any of these subcategories. | n/a |
| 3.G.2. Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole. | n/a |
| Draw and identify lines and angles, and classify shapes by properties of their lines and angles. | |
| 4.G.1. Draw points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines. Identify these in two-dimensional figures. | n/a |
| 4.G.2. Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines, or the presence or absence of angles of a specified size. Recognize right triangles as a category, and identify right triangles. | n/a |

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Level D (3-4)

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| 4.G.3. Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry. | n/a |
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