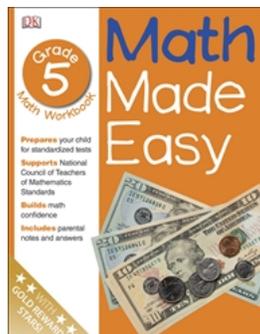


DK Common Core State Standards Alignment for Mathematics



ISBN: 9780789457417

Operations and algebraic thinking

- Use the four operations with whole numbers to solve problems
- Estimating within all four operations to find sum, difference, product and quotient
- Ordering large number
- Rounding to the nearest 10, 100, 1000
- Division with remainders
- Multiply large numbers by ones*
- Adding and subtracting with different number digits*
- Create equivalent number sentences using all four operations*
- Estimation and probability*
- Generate and analyze patterns*
- Gain familiarity with factors and multiples
- Gain fluency in multiplication and division facts*
- Write and interpret numerical expression
- Use of parentheses
- Analyze patterns and relationships

Number and operations in base ten

- Understand the place value system
- Perform operations with multi- digits and with decimals to hundredths
- Generalize place value understanding multi-digit whole numbers*
- Write in standard form and in words*
- Expanded form



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- Use place value understanding and properties of operations to perform multi-digit arithmetic (place value to 1,000)*

Number and operation – fractions

- Extend understanding of fraction equivalence and ordering (mixed numbers)*
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers*
- Understand decimal notation for fractions, and compare decimal fractions*
- Use equivalent fractions as a strategy to add and subtract fractions
- Change improper fractions to mixed numbers
- Adding mixed numbers and fractions
- Rounding decimals, mixed numbers
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions
- Multiplying decimals
- Finding percentages
- Division of 3- digit decimal numbers
- Rounding decimals

Measurement and data

- Work with time and money *
- Adding and subtracting with decimals using borrowing and regrouping*
- Solve problems involving measurement and conversion of measurements from a large unit to a smaller unit*
- Use standard and metric units*
- Convert minutes to hours*
- Solve real life problems involving time and money
- Identify appropriate unit of measurement*
- Identify elapsed time*
- Represent and interpret data
- Graphs and charts*
- Find averages*
- Probability*
- Calculate mean, median, mode
- Graph points on the coordinate plane to solve real world problems and mathematical problems



- Work with time and money *
 - Estimating differences and sums of money*
 - Convert like measurement units within a given measurement system
 - Length, time, capacity, mass
 - Understand concept of volume and relate volume to multiplication and to addition

Geometry

- Geometric measurement; understand concepts of angle and measure angles*
- Draw and identify line and angles*
- Classify shapes 2D & 3D by properties of their lines and angles including triangles and polygons *
- Symmetry*
- Congruency*
- Classify 2- dimensional and 3- dimensional figures into categories based on their properties
- Polygons*, quadrilaterals, triangles*

Mathematical practices

- Make sense of problems and persevere in solving them
- Reason abstractly and quantitatively
- Construct viable arguments and critique the reasoning of others
- Model with mathematics
- Use appropriate tools strategically
- Attend to precision
- Look for and make use of structure
- Look for and express regularity in repeated reasoning

*indicates this material is a review from grade 4



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