

Checklist of Problem Types

MATH Level D

Correlated to CCSS by Angie Seltzer, www.angiestutoring.com (v.1.08)
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NUMBER OPERATIONS IN BASE TEN

D.B1 Generalize place value understanding for multi-digit whole numbers.

- ___ 1 Relate place value to multiplication and division by 10.
- ___ 2 Read and write numbers to 1 million.
- ___ 3 Convert between standard and expanded form of whole numbers.
- ___ 4 Compare numbers up to 1 million.
- ___ 5 Round multi-digit whole numbers to any place.
- ___ 6 Add and subtract whole numbers using place-value concepts.

D.B2 Use place value understanding and properties of operations to perform multi-digit arithmetic.

- ___ 1 Add multi-digit numbers using the standard algorithm.
- ___ 2 Subtract multi-digit number using the standard algorithm.
- ___ 3 Multiply 2-digit by 1-digit numbers using place value and/or models.
- ___ 4 Multiply 3- and 4-digit by 1-digit numbers using place value and/or models.
- ___ 5 Multiply 2-digit by 2-digit numbers using place value and/or models.
- ___ 6 Relate division and multiplication.
- ___ 7 Divide 2-digit dividends by 1-digit divisors using place value and/or models.
- ___ 8 Divide 3- and 4-digit dividends by 1-digit divisors using place value and/or models.

GEOMETRY

D.G1 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

- ___ 1 Identify and draw points, lines, and line segments.
- ___ 2 Identify and draw parallel and perpendicular lines.
- ___ 3 Identify and draw rays and acute, right, and obtuse angles.
- ___ 4 Classify and identify triangles by angles.
- ___ 5 Identify and draw lines of symmetry.

NUMBER & OPERATIONS WITH FRACTIONS

D.F1 Extend understanding of fraction equivalence and ordering.

- ___ 1 Identify equivalent fractions using models.
- ___ 2 Write fractions equivalent to a given fraction.
- ___ 3 Compare fractions by rewriting them with a common denominator.
- ___ 4 Compare fractions by using models.
- ___ 5 Compare fractions by relating to benchmarks.

D.F2 Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

- ___ 1 Decompose fractions and mixed numbers, and write as equations.
- ___ 2 Add and subtract fractions with like denominators.
- ___ 3 Add and subtract mixed numbers with like denominators.
- ___ 4 Add and subtract fractions to solve word problems.
- ___ 5 Decompose a non-unit fraction as a whole number times a unit fraction.
- ___ 6 Multiply fractions by whole numbers.

D.F3 Understand decimal notation for fractions, and compare decimal fractions.

- ___ 1 Write fractions with denominator 10 as hundredths.
- ___ 2 Add fractions in tenths and hundredths.
- ___ 3 Convert between decimals and fractions in tenths or hundredths.
- ___ 4 Locate decimals on a number line.
- ___ 5 Compare two decimals to hundredths.

NAME _____ DATE _____

OPERATIONS & ALGEBRAIC THINKING

D.A1 Use the four operations with whole numbers to solve problems.

- ___ 1 Interpret multiplication as "times as many."
- ___ 2 Distinguish multiplicative from additive comparison in word problems.
- ___ 3 Solve number sentences involving multiple operations.
- ___ 4 Solve multi-step word problems using number sentences.
- ___ 5 Interpret remainders in division problems.
- ___ 6 Estimate to assess reasonableness of answers.

D.A2 Gain familiarity with factors and multiples.

- ___ 1 List factors pairs for numbers 1 to 100.
- ___ 2 Recognize factors and multiples.
- ___ 3 Recognize prime and composite numbers.

D.A3 Generate and analyze patterns.

- ___ 1 Complete number patterns.
- ___ 2 Generate number or shape patterns from rules.
- ___ 3 Identify and explain features of patterns.

MEASUREMENT & DATA

D.M1 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

- ___ 1 Compare measurement units and convert from larger to smaller units.
- ___ 2 Create or complete tables of equivalent measurements.
- ___ 3 Solve problems involving distance, time, and elapsed time.
- ___ 4 Solve problems involving capacity (liquid volume) and weight (mass).
- ___ 5 Solve problems involving money.
- ___ 6 Represent measurements on a number line diagram.
- ___ 7 Solve problems involving area of rectangles.
- ___ 8 Solve problems involving perimeter of rectangles.

D.M2 Represent and interpret data.

- ___ 1 Make line plots using data including fractions.
- ___ 2 Solve problems about line plots, such as finding range.

D.M3 Understand concepts of angle and measure angles.

- ___ 1 Relate degrees to fractions of a circle.
- ___ 2 Measure and draw angles using a protractor.
- ___ 3 Solve problems involving angle measurements.