Problem Sequencing
Elementary Number Sense Test

Problem 1 - 20*
1.   Addition, subtraction, multiplication, & division of whole numbers
2.   Recognizing place value
3.   Rounding off whole numbers
4.   Multiplication short-cuts
5.   Remainder type problems
6.   Even & odd number type problems
7.   Expanded notation
8.   Sums of whole numbers with regrouping
9.   Differences of whole numbers with regrouping
10. Roman numerals/Arabic numbers conversion

Problems 21 - 40
1.   Addition/subtraction of fractions with common denominators
2.   Addition, subtraction, multiplication, & division of decimal fractions
3.   Comparing decimal & fractions
4.   Conversion problems (either way): fraction/decimal, percent/fraction, percent/decimal
5.   Order of operations
6.   More multiplication short-cuts
7.   Ratio/proportion
8.   Consumer type problems
9.   Problems about prime numbers
10. Greatest common divisor (gcd) & least common multiple (lcm)
11. Conversion problems (either way): length, measurements, time

Problems 41 - 60
1.   Addition, subtraction, multiplication & division of fractions and mixed numbers
2.   Substitution problems
3.   Perimeter/area of: square, rectangle, triangle
4.   Radius/diameter of a circle
5.   Powers & roots of numbers
6.   Solving simple equations
7.   Sequences
8.   Sets
9.   Word problems
10. Volume of cube/rectangular box
11. Right triangle problems
12. More multiplication short-cuts
13. Base systems conversions

Problems 61 - 80
1.   Addition, subtraction, multiplication & division of integers
2.   Inverses
3.   Basic geometry facts
4.   More area problems
5.   Squaring two-digit numbers
6.   More multiplication short-cuts
7.   More powers and roots of numbers
8.   More consumer type problems
9.   Inequalities
10. Probability
11. More area problems: parallelogram, rhombus, trapezoid
12. Coordinate geometry - number line
13. More percent type problems

Problem Sequencing
Junior High Number Sense Test

Problems 1 - 20*
1.   Addition, subtraction, multiplication & division of whole numbers, fractions, and decimals
2.   Order of operations
3.   Use of the distributive property
4.   Comparison of fractions & decimals
5.   Multiplication short-cuts
6.   Squaring numbers
7.   Roman numerals/Arabic numbers
8.   Mean, median, mode
9.   Sums of whole numbers of multiple terms of a finite series

Problems 21 - 40
1.   Addition, subtraction, multiplication & division of mixed numbers and integers
2.   More multiplication short-cuts
3.   Percent problems
4.   Conversion problems (either way): English/metric, length, area, capacity, time
5.   Consumer type problems
6.   Substitution problems
7.   Solving simple equations
8.   Square roots/cube roots
9.   Greatest common divisor (gcd) & least common multiple (lcm)
10. Number theory - prime numbers and divisors
11. Perimeter/area of: square, rectangle, circle
12. Ratio/proportion
13. Inverses
14. Multiplication of 101, 111

Problems 41 - 60
1.   Sets
2.   Word problems
3.   Pythagorean theorem
4.   Sequences
5.   Volume/surface area of rectangular solid/cube
6.   Base systems: conversions and basic operations
7.   Area of: parallelogram, rhombus, trapezoid, circle
8.   Solving inequalities
9.   Basic geometry facts
10. Remainder problems

Problems 61 - 80
1.   Repeating decimals
2.   More number theory
3.   Powers of numbers
4.   Volume of: circular cylinder, cone, sphere
5.   Sequences & series
6.   Factorial
7.   Coordinate geometry
8.   Probability/odds
9.   More percent type problems: Advanced
10. More remainder type problems
11. More multiplication short-cuts

Number Sense

Number Sense Sequencing lists have been updated for 2016-2017.

* A type of problem from a particular section could appear later in the test. For example, a GCD problem could appear as problem #43, but not any earlier than problem #21.