**VA Standards of Learning related to the Sound of Fractions**

**2.3 Identify Fractions as real numbers**

a) identify the parts of a set and/or region that represent fractions for halves, thirds, fourths,

sixths, eighths, and tenths;

b) write the fractions; and

c) compare the unit fractions for halves, thirds, fourths, sixths, eighths, and tenths.

**2.20 Identify and create patterns**

The student will identify, create, and extend a wide variety of patterns.

**3.7 Add/Subtract Like denominators**

The student will add and subtract proper fractions having like denominators of 12 or less.

**3.19 Extend Pattern Representations**

The student will recognize and describe a variety of patterns formed using numbers, tables, and pictures, and extend the patterns, using the same or different forms.

**4.2.a Compare and order fractions**

a) compare and order fractions and mixed numbers;

**4.2.b Identify Equivalent Fractions**

b) represent equivalent fractions; and

c) identify the division statement that represents a fraction.

**4.5 Factors and Simplification**

a) determine common multiples and factors, including least common multiple and greatest common factor;

b) add and subtract fractions having like and unlike denominators that are limited to 2, 3, 4, 5, 6, 8, 10, and 12, and simplify the resulting fractions, using common multiples and factors;

d) solve single-step and multi-step practical problems involving addition and subtraction with fractions and with decimals

**4.12 Introduction to Polygons**

a) define polygon

b) identify polygons with 10 or fewer sides

**5.2 Equivalence and order of fractions**

a) recognize and name fractions in their equivalent decimal form and vice versa;

b) compare and order fractions and decimals in a given set from least to greatest and greatest to least.

**5.6 Fractions and mixed Numbers**

Solve single-step and multi-step practical problems involving addition and subtraction with fractions and mixed numbers and express answers in simplest form.

**6.2 Order, Equivalence, and representation form of fractions**

a) investigate and describe fractions, decimals and percents as ratios;

b) identify a given fraction, decimal or percent from a representation;

c) Demonstrate equivalent relationships among fractions, decimals, and percents;

d) Compare and order fractions, decimals, and percents.

**6.4 Representations of multiplication and division**

The student will demonstrate multiple representations of multiplication and division of fractions.

**6.6 Mixed Number operations**

a) Multiply and divide fractions and mixed numbers

**7.12 Making Representations**

The student will represent relationships with tables, graphs, rules, and words

**8.14 Identify relationships between representations**

The student will make connections between any two representations (tables, graphs, words, and rules) of a given relationship