Narrative of Segments for May, 2104 Workshop

1. Introduction
   Introduce presenters – Sharon Thomas and Dr. Sueanne McKinney
   Objectives and format of the workshop.

2. Fraction Factory
   Teaching fractions with Fraction Factory for Grades 1-2.
   Concepts of parts of a whole region.
   Establishing equivalency of fractions.
   Notation of fractional numbers and writing fractions.

3. Fraction Tiles & Bars
   Renaming and reducing fractions.
   Equivalencies.
   Developing a fraction map.
   Simple addition and subtraction of fractions with like denominators Grade 2.

4. Fraction Circles and Squares
   Teaching parts of a whole region with Fraction Circles and Squares.

5. Everyday Math
   Card games with Every Day Math Cards – greater than, less than, equal to parts of a whole region.

6. Fractions in Daily Life
   Creating word problems with fractions based on real life situations.
   Classroom management practices for teaching with manipulatives.

7. LCM Fraction Factory & Fraction Tiles
   Illustrating least common multiples with manipulatives.

8. Add & Subtract Fractions
   Renaming and reducing fractions.

9. Pattern Blocks & Fractions
   Grades 3-4
   Relativity of fractional sizes.
   Variable nature of fractional values.

10. Cuisenaire Rods & Fractions
    Tips for making manipulatives like Cuisenaire Rods as practice sets for students.

11. Variable Size-Whole Region
    How the size of a whole region is always a variable.
    Whole-part relationships.
    Mixed numbers represented with manipulatives.
12. **Fraction Tiles, Fraction Bars, Fraction Circles**  
   Teaching addition with like denominators using manipulatives.  
   Finding least common multiples with manipulatives.  
   Trading or reducing fractions with manipulatives.

13. **Adding Fractions with Unlike Denominators**  
   Teaching addition of fractions with unlike denominators using manipulatives.  
   Adding mixed numbers with unlike denominators using manipulatives.

14. **Fraction Tiles & Subtraction**  
   Teaching subtraction of fractions using manipulatives for like denominators.

15. **Subtraction with Unlike Denominators**  
   Acting upon fractions in subtraction with unlike denominators using Fraction Tiles.

16. **Conclusion**  
   Summation and list of email addresses for contacting instructors.  
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