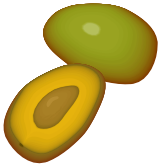


**ACES: Algebraic Concepts for Elementary Students  
Summer Institute, July 19-23 and 26-30, 2010**

**Agenda Day 2**

1. Welcome!
2. Mangos: Of a collection of mango fruits, the king took  $\frac{1}{6}$ , the queen  $\frac{1}{5}$  of the remainder, the three chief princes  $\frac{1}{4}$ ,  $\frac{1}{3}$ , and  $\frac{1}{2}$  of the successive remainders, and the youngest child took the remaining 3 mangoes. O you who are clever in miscellaneous problems on fractions, give out the measure of the collection of mangoes.\*



\*This is a tax problem written in the ninth century by Mahavira, a great mathematician and astronomer. It comes from his famous book *Ganita-Sara-Sangraha (A Vast Ocean)*. This book, which is technical in content and development, provides historical evidence of Indian (Hindu) mathematics.

3. Fraction Focus:
  - a. Understanding the unit
  - b. Representations of fractions
4. Concepts and Standards Focus:
  - a. Balanced Math Program
  - b. Concepts and skills – which is which?
  - c. Intro to Concept Mapping
5. Fraction Focus:
  - a. Interpretations of fractions
  - b. Representations of fractions
6. Surveys and Closure

