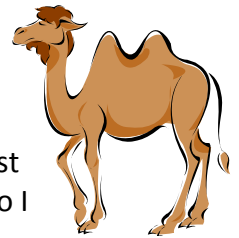


**ACES: Algebraic Concepts for Elementary Students
Summer Institute, July 19-23 and 26-30, 2010**

Agenda Day 10

1. Welcome!
2. The Bedouin Will (from *One Equals Zero*, by Nitsa Movshovitz-Hadar and John Webb) An old Bedouin died and left 17 camels to his three sons. His will specified that half the camels should go to his eldest son, one-third to his second son, and one-ninth to his youngest son. His sons could not see how to distribute the camels without cutting some of them up, or selling them and dividing the money, which they did not want to do. So they went to a tribal elder for advice.

The old man thought for a while and then said, "I have 1 camel. I will add it to your 17 to make 18 camels. Now we shall divide them. The eldest son takes one-half of the camels, or 9. The second son takes one-third, or 6. The youngest son's share is one-ninth, or 2. Because $9+6+2 = 17$, there is 1 camel left over, so I get my camel back."



How could it be that the tribal elder succeeded in solving a problem the sons thought was impossible?

3. Proportional Reasoning Focus:
 - a. Rate and ratio problems
4. Fraction Focus:
 - a. Percent as it relates to fractions
5. Lesson Study
6. Closure and evaluations