Algebra/Geometry Institute Summer 2002



Lesson Planning Guide

Faculty Name:Dessie G. Hart School:Coahoma County Jr. High Grade Level: 8th Competency: 7a, 7b

- 1 Teaching objective(s)
 - a. To investigate Pi
 - b. To find circumference
- 2 Instructional Activities
 - a. The teacher will have a volunteer read the book <u>Sir Cumference</u> <u>and the Dragon Pi</u> by Cindy Neuschwander as other students read from the transparency. She will tell students they will take on Radius' job in today's story, comparing the circumference to the diameter of circular objects to find *Pi*.
 - b. The teacher will draw a circle on a transparency and have students to identify radius, diameter, chords, and center of a circle
 - c. The students will work in groups of four using a tape measure and string to measure the diameter and circumference of circular objects. They will record these measures on their worksheet and find the ratio of the circumference to the diameter
 - d. Given the ratio $\frac{c}{d} = \pi$ the teacher will use the overhead to

demonstrate how to solve to find the circumference of a circle.

e. Given two sets of two problems, the student will find the circumference of one set

Set I	Set II
1. $r = 8cm$	1. $r = 6cm$

- 2. d=11m 2. d=9m
- f. The teacher will take up students' work and select four volunteers to solve the problems on the overhead

- 3 Materials and Resources
 - a. Prentice Hall Pre-Algebra Book
 - b. Sir Cumference and the Dragon of Pi Book by Cindy Neuschwander, Published by Charlesbridge Publishing,1999
 - c. Merrill Pre-Algebra A Transition to Algebra
 - d. Circular Objects
 - e. Groups Worksheets
 - f. Scissors, tape measures and strings
- 4 Assessment
 - a. oral and written responses
 - b. Two problems activity sheet
- 5 Enrichment (Optional) Students will be given a worksheet where they will have to find the diameter given the circumference