## Objectives:

Using the ARCHIMEDES aplet, the student will explore Archimedes' method for approximating the value of $\pi$ by comparing the area of a regular polygon to the area of the corresponding circumscribed circle.

## Functionality:

When the student selects START, the ARCHIMEDES NOTE will be displayed.

The student should then press VIEWS to enter the number of sides of the regular polygon to be investigated. Choose RESET to begin with a triangle.

The aplet then shows the regular polygon inscribed within a circle along with the number of sides of the polygon, the area of the circle, the area of the polygon, and the difference in the two areas.

Double \#Sides will double the number of sides of the regular polygon and automatically return to the display.

Enter \#Sides will prompt the student for the number of sides of the regular polygon and then return to the display.


Programs associated with this aplet:
.A.D, .A.I, .A.R, .A.S, .A.P, .A.SV

