...*Circles continued from page 7*

towards the center and go forward a bit..."

To be continued...

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LogoEnsemble π Approximation Experiment

by Gary S. Stager

This activity makes use of the LogoEnsemble database functionality and turtle graphics. A circle with a randomly chosen circumference is drawn on the page. Then the turtle invisibly (pu) walks across through the center of the circle measuring the approximate diameter of the circle.

The circle's circumference and diameter are recorded in the database and π (pi) is calculated by dividing the diameter into the circumference.

The `STARTUP` procedure automatically ensures that the `FIND.PI` database is created if it is not loaded or does not exist.

To run the experiment, type:

```
REPEAT some # [circle]
ie... REPEAT 100 [circle]
```

```
to circle
cg ht
make "circumference 50 + random
400
draw.circle
record.data
end

to draw.circle
pd
repeat 360 [fd :circumference /
360 rt 1]
end

to measure
pu
rt 90
output getdiameter 1
end
```

See Pi...p. 9