

# A STEM in the Park

## Take Home Activity

# STEM

in the **PARK**™

Science, Technology, Engineering, and Mathematics

## Traversable Walk

### Eulerian Path (traversable walk)

Leonhard Euler (German; April 15, 1707 – September 18, 1783)

was a Swiss mathematician, physicist, astronomer, geographer, logician and engineer who made important and influential discoveries in many branches of mathematics.

An Eulerian path is a path in a graph that visits each edge exactly once.



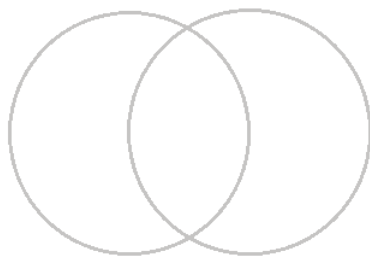
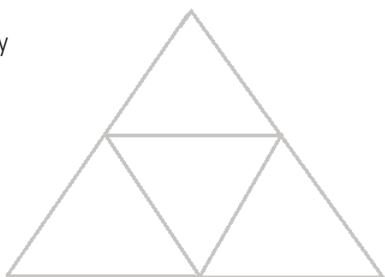
### What You Need

- Paper
- Pencil

### What To Do

Try the following Eulerian paths by tracing each of the patterns without lifting your pencil and without retracing and lines. You may cross lines. You choose the starting point.

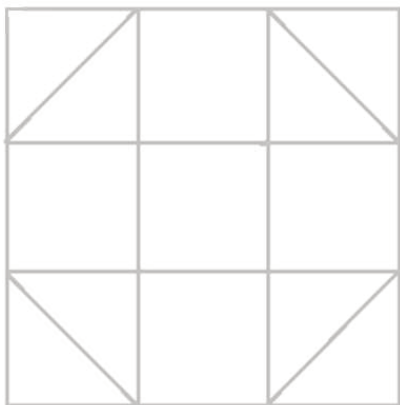
1. Easy



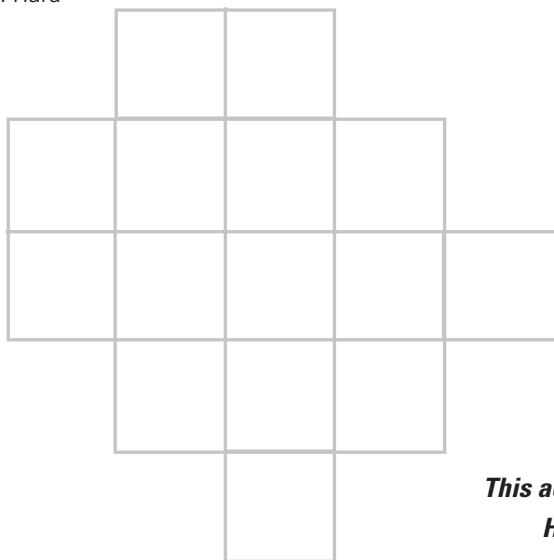
*Continued on back*

## ***What To Do cont.***

2. Moderate



3. Hard



*This activity is brought to you by  
Heidelberg University*

