

## Task: Real World Examples

### Six Degrees of Separation:

The theory of *Six degrees of separation* asserts that any two people in the world are connected through a chain of at most six friend connections.

#### Challenge:

- What are the nodes or dots in the graph of this Theory?
- What are the edges or lines?
- What do six degrees of separation mean for this graph?

### Four Color Theorem:

Four colors suffices in order to color any map, so that adjacent countries are all colored different colors.

#### Challenge:

- What are the nodes or dots in the graph in this Theorem?
- What are the edges or lines?
- What does the Theorem say?