Curb the Epidemic! Worksheet

1. Input Values:

    a. % of people vaccinated: _____

    b. Population Density: _____

    c. Population mixing: _____

2. Briefly explain the reason(s) for choosing these values:

3. Simulation results:

Simulation #	Death Toll	Sick Days

Website*: Disease Lab*

https://www.learner.org/series/the-habitable-planet-a-systems-approach-to-environmental-science/disease-lab/

TeachEngineering.org

Brought to you by CU Engineering
UNIVERSITY OF COLORADO BOULDER

Extra Credit

1. Which input values would be <u>least</u> effective to prevent infection? Please explain your choice.

2. With this least effective choice of input values, perform 10 simulations and compute the average number of infected individuals.

   Simulation results:

Simulation #		Death Toll	Sick Days

   3. Average number of infected individuals: _____

   4. Is this number larger than the one computed previously for your vaccination strategy that was attempting to minimize the number of infected individuals?

TeachEngineering.org