

Name: _____ Date: _____

Curb the Epidemic Worksheet

1. Individuals chosen to vaccinate: _____ and _____
2. Briefly explain the reason(s) for choosing these individuals:

3. Simulation Results

Simulation #	# of individuals infected
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

4. Average number of infected individuals: _____

Website: *Spread of Disease on a Social Network* at <http://www.cis.jhu.edu/~goutsias/teachingApplet/webapp.html>

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Extra Credit

1. Which individuals would be least effective to vaccinate (that is, to maximize the number of individuals infected)? Please explain your choice.
2. With this least effective choice of vaccination, perform 10 simulations and compute the average number of infected individuals.

Simulation #	# of individuals infected
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

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?