

Pre-Survey

Please answer these questions prior to playing the single level prototype

* Required

1. **True or False: On average, some fraction of an infected population will shift over to the recovered population each day. ***

Mark only one oval.

- ☐ True
☐ False

2. **What is the amount of recovered individuals in the population dependent on? ***

Mark only one oval.

- ☐ Amount of Susceptible Individuals
☐ Amount of Infected Individuals

3. **How does the SIR model assume that susceptible and infected individuals eventually shift to the recovered population? ***

Mark only one oval.

- ☐ Death
☐ Natural Recovery
☐ Vaccination
☐ Quarantine
☐ All of the Above

4. What is herd immunity? **Mark only one oval.*

- ☐ When there are no infected individuals left to spread the disease
- ☐ When enough individuals are recovered to reduce the spread of disease
- ☐ When there are no longer enough susceptibles in the population to spread the disease

5. How is the relative contagiousness of the disease measured in the SIR model? **Mark only one oval.*

- ☐ Rate of change between susceptible to infected
- ☐ Rate of change between infected and recovered
- ☐ The number of close contacts per infected individual

6. Does the word epidemic mean that everyone will get sick at some point? **Mark only one oval.*

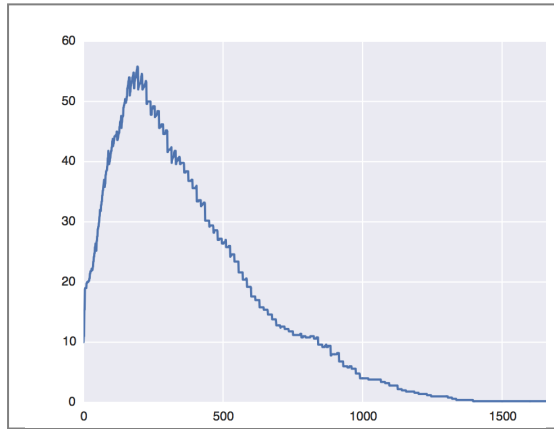
- ☐ Yes
- ☐ No

7. How would you expect the number of recovered individuals to change over time during an epidemic using the SIR model? **Mark only one oval.*

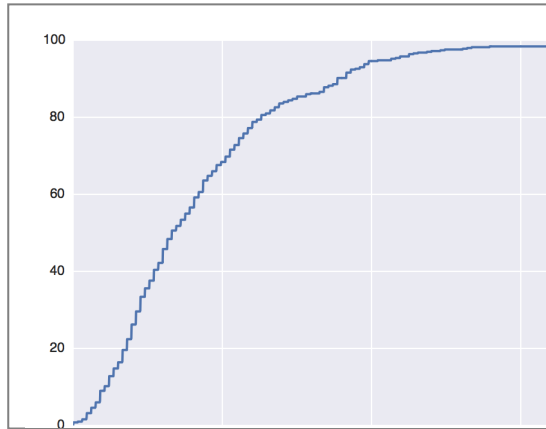
- ☐ Increase
- ☐ Decrease
- ☐ Stay fixed
- ☐ Increase then decrease
- ☐ Decrease then increase

8. What curve best represents the infected population over time in an epidemic? *

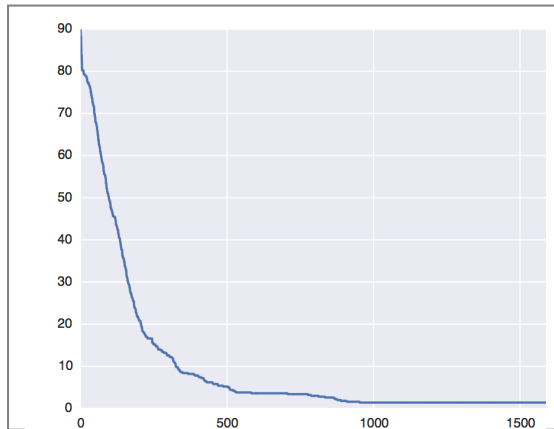
Mark only one oval.



☐ Option 1



☐ Option 2



☐ Option 3

9. True or False: At each stage of an epidemic, adding the number of susceptible, infected, and recovered individuals will always equal to the total population. *

Mark only one oval.

☐ True

☐ False

10. What is the point of vaccination? **Mark only one oval.*

- ☐ To reduce the number of infected individuals
- ☐ To increase the number of recovered individuals
- ☐ To create herd immunity by reducing the number of susceptible individuals without actually giving those people the disease

11. How much experience would you say you've had playing video games? **Mark only one oval.*

	1	2	3	4	5	
None at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extensive

12. How much experience would you say you've had with the SIR epidemic model? **Mark only one oval.*

	1	2	3	4	5	
None at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extensive

13. How much experience would you've had with differential equations? **Mark only one oval.*

	1	2	3	4	5	
None at all	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Extensive

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