Systems Thinking Quiz

This week you learned about the African savanna ecosystem and played Food Fight to understand different behaviors of the ecosystem. We would like to hear your thoughts about behaviors in a variety of systems – some in nature and some in our everyday lives. You will be presented with two systems and four questions for each system. There are many ways to answer the questions, and there is no right or wrong answer.
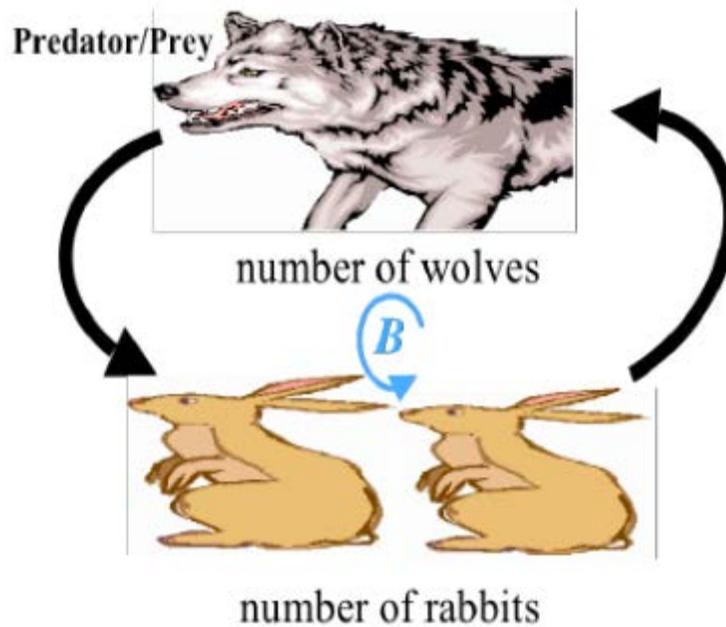
*Required

Your name *

Your class *
Mark only one oval.

☐ Yellow
☐ Green
☐ Red
☐ Blue

1. Certain animals (predators) prefer to eat other animals (prey). Let's think about the relationship between wolves and rabbits (one of wolf's favorite foods). For the purposes of this story, wolves' other favorite foods (duck and deer) aren't available due to disease.

Predator/Prey

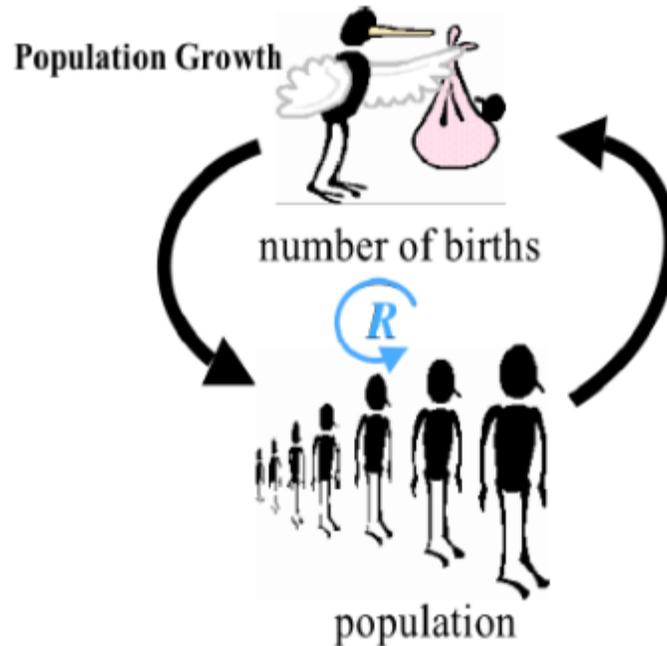number of wolves

B

number of rabbits

Tell us a story about the relationship between the wolf population and the rabbit population.

What do you think happens to the two populations over time?

If the rabbit population decreases, then what happens to the wolf population?

Can you think of other situations that feel the same as this?

2. Let's think about the relationship between the number of babies born and the population.

Tell us a story about the relationship between the number of babies born and the population in Massachusetts.

What do you think happens to these two populations over time?

If the number of babies born increases, then what happens to the population?

Can you think of other situations that feel similar to this?

3. Comparison of the Two Systems: Now let's look at the causal diagram of the systems you just described.

How are they different or similar?

The End. Thanks!