Name _____ Date _____ Period _____

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Human Impacts on Biodiversity

Biology

Answer in complete sentences where asked. Show your work for calculations and use the data as evidence.

1. Name the main threat to biodiversity in each situation.

Situation	Main threat
(a) A wetland is drained and paved for a parking lot	
(b) A snail from another region spreads and eats native plants	
(c) A fish is caught faster than its population can recover	

2. Answer the questions about biodiversity.

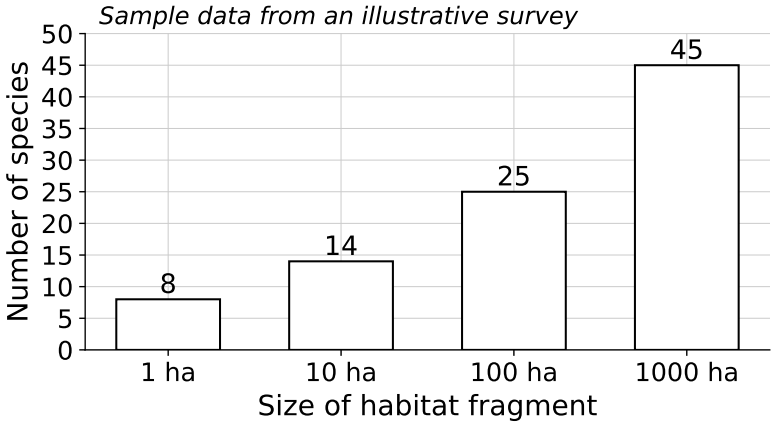
(a) What is biodiversity?

(b) Name the three levels at which biodiversity is described.

(c) Explain how fertilizer runoff can harm fish in a lake.

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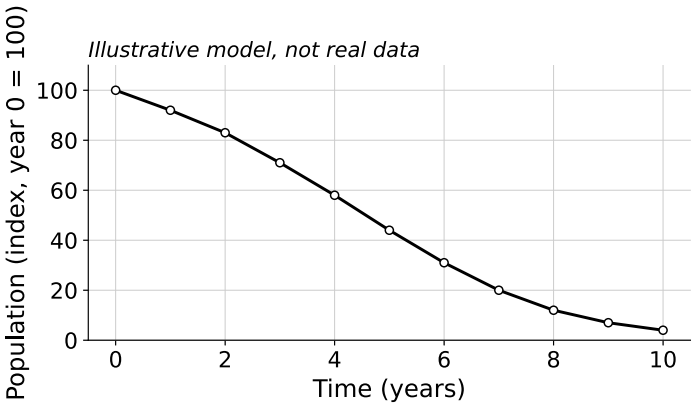
3. Species were counted in habitat fragments of different sizes (sample data).



(a) Calculate the percent increase in species from the 10 ha fragment to the 100 ha fragment. Show your setup and round to the nearest tenth.

(b) Write a claim, evidence, and reasoning to answer: do larger fragments hold more species?

4. A fish stock is harvested faster than it can recover (illustrative model).



(a) Calculate the percent decrease in the population from year 0 to year 10. Show your setup.

(b) Suggest one way to slow the decline and explain why it could help.

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