

## 2.2.10.10.1

### Population Ecology Practice Problems

Answer the following questions. Show your work for the ones that require a calculation or formula.

1. A fish biologist has counted a lake's trout and noted that the density is 100 trout/m<sup>2</sup>. How many trout would there be in a lake that is 1000 m<sup>2</sup>?

$$\text{Density} = \frac{\text{Number}}{\text{Area}}$$

$$100 = \frac{\text{Number}}{1000}$$

2. A biologist captures 1000 fish in a lake. She notes that 100 of them are tagged. How many fish would there be in the lake if the population is 1000?

$$\text{Density} = \frac{\text{Number}}{\text{Area}}$$

$$100 = \frac{1000}{\text{Area}}$$

3. Suppose the population density of a species of fish is 100 per square meter. Assuming that the population is uniformly distributed across the entire lake, how many fish would there be in a lake that is 1000 m<sup>2</sup>?

$$\text{Density} = \frac{\text{Number}}{\text{Area}}$$

$$100 = \frac{\text{Number}}{1000}$$

4. There are 1000 fish in a population. There is no net immigration or emigration. If 100 fish die and 100 fish are born in one month, what is the population size at the end of the month? Assuming the number of fish remains constant.

$$\text{Density} = \frac{\text{Number}}{\text{Area}}$$

$$100 = \frac{\text{Number}}{1000}$$

In a population of 1000 fish, there are 100 fish that are tagged. Suppose that 100 fish die and 100 fish are born in one month. What is the population size at the end of the month?

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$$100 = \frac{\text{Number}}{1000}$$

# Population Ecology Problems And Answers

**Scott C. Dulebohn**



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