



## The National Institute for Mathematical and Biological Synthesis

Biodiversity is \_\_\_\_\_

Biodiversity takes into account species richness and evenness:

Species richness is \_\_\_\_\_

Species evenness is \_\_\_\_\_

What is your HYPOTHESIS? Do you think there will higher biodiversity in the woods or higher diversity in the pasture? Why?

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Species	Plot 1 Woods	Plot 2 field
Centipedes	50	10
Millipedes	36	50
Butterflies	35	0
Lady bugs	55	39



Which plot is more species rich? \_\_\_\_\_

Which plot is more species even? \_\_\_\_\_

Simpson's Index:

$$D = 1 - \frac{\sum_{i=1}^S n_i(n_i-1)}{N(N-1)}$$

DEFINE:

$D$ =

$\Sigma$ =

$n_i$ =

$N$ =

$S$ =

Calculate Simpsons Diversity Index for Plot 1 Woods:

Calculate Simpsons Diversity Index for Plot 2 Field:

Which plot is more diverse?