# Simpson's Diversity Index - Practice Questions

The equation for Simpson's Diversity Index is shown below:

$$D = \frac{N(N-1)}{\Sigma\, n(n-1)}$$

**D = Biodiversity (higher means more diverse)**

**N = Total number of organisms**

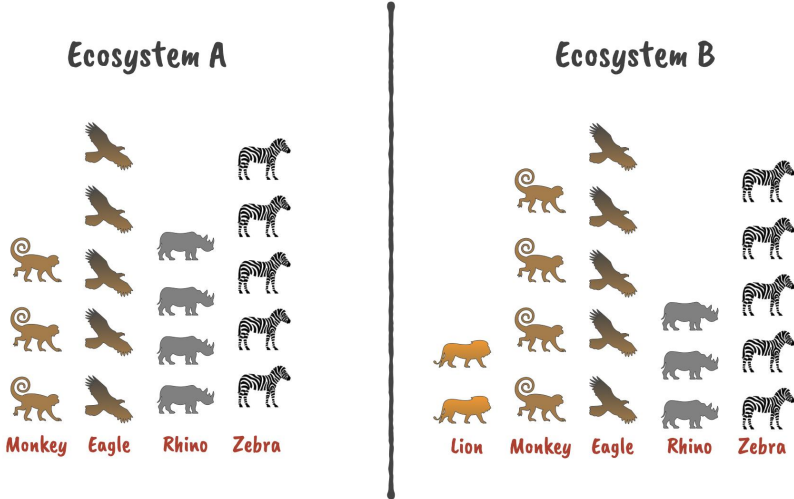**n = Number of organisms of each species**

Use Simpson's Diversity Index to answer the questions on the following pages.

# Simpson's Diversity Index - Practice Questions

The equation for Simpson's Diversity Index is shown below

## Question 1
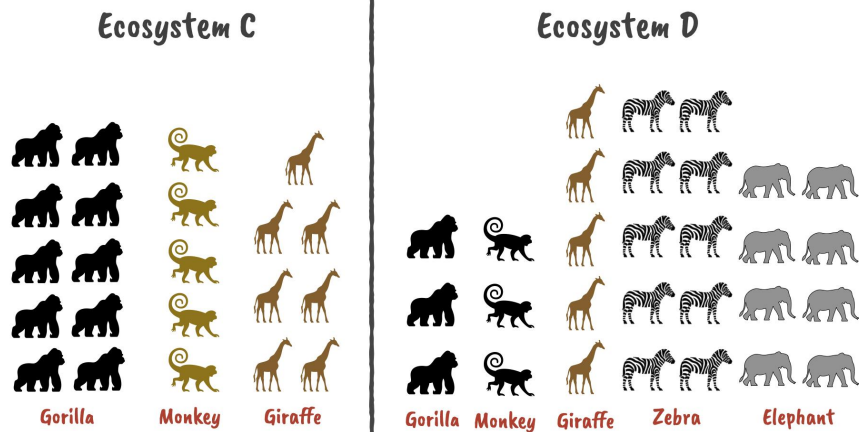
Calculate "D" for each ecosystem below:



Show your working (you may need an extra page):

Which ecosystem, A or B, has the highest species diversity?

# Question 2

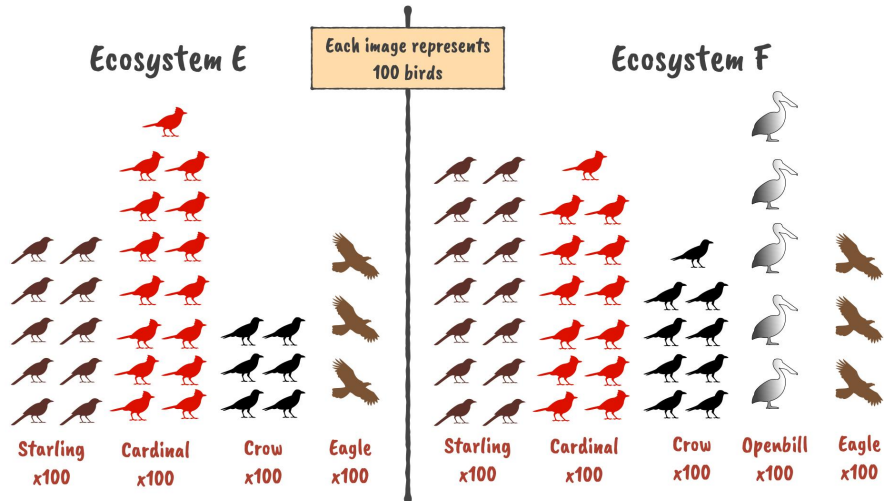Calculate "D" for each ecosystem below:



Show your working (you may need an extra page):

Which ecosystem, C or D, has the highest species diversity?

# Question 3

Calculate "D" for each ecosystem below:



Each image represents 100 birds

Ecosystem E

Starling x100  Cardinal x100  Crow x100  Eagle x100

Ecosystem F

Starling x100  Cardinal x100  Crow x100  Openbill x100  Eagle x100

Show your working (you may need an extra page):

Which ecosystem, E or F, has the highest species diversity?