

(c) A study compared the diversity of cichlid species in two crater lakes.

The index of diversity (D) for Lake Xiloá was 2.8.

The table shows the data obtained from Lake Apoyo.

Species	Number of individuals (n)	n(n - 1)
<i>A. astorquii</i>	156	24 180
<i>A. chancho</i>	45	1 980
<i>A. flaveolus</i>	78	6 006
<i>A. globosus</i>	8	56
<i>A. superciliosus</i>	17	272
<i>A. zaliosus</i>	12	
	N = 316	$\sum n(n - 1) =$

An index of diversity (D) is calculated using the formula:

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

Determine which of the lakes has the higher biodiversity of cichlids.

Use the table and the formula to help you.

(4)

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