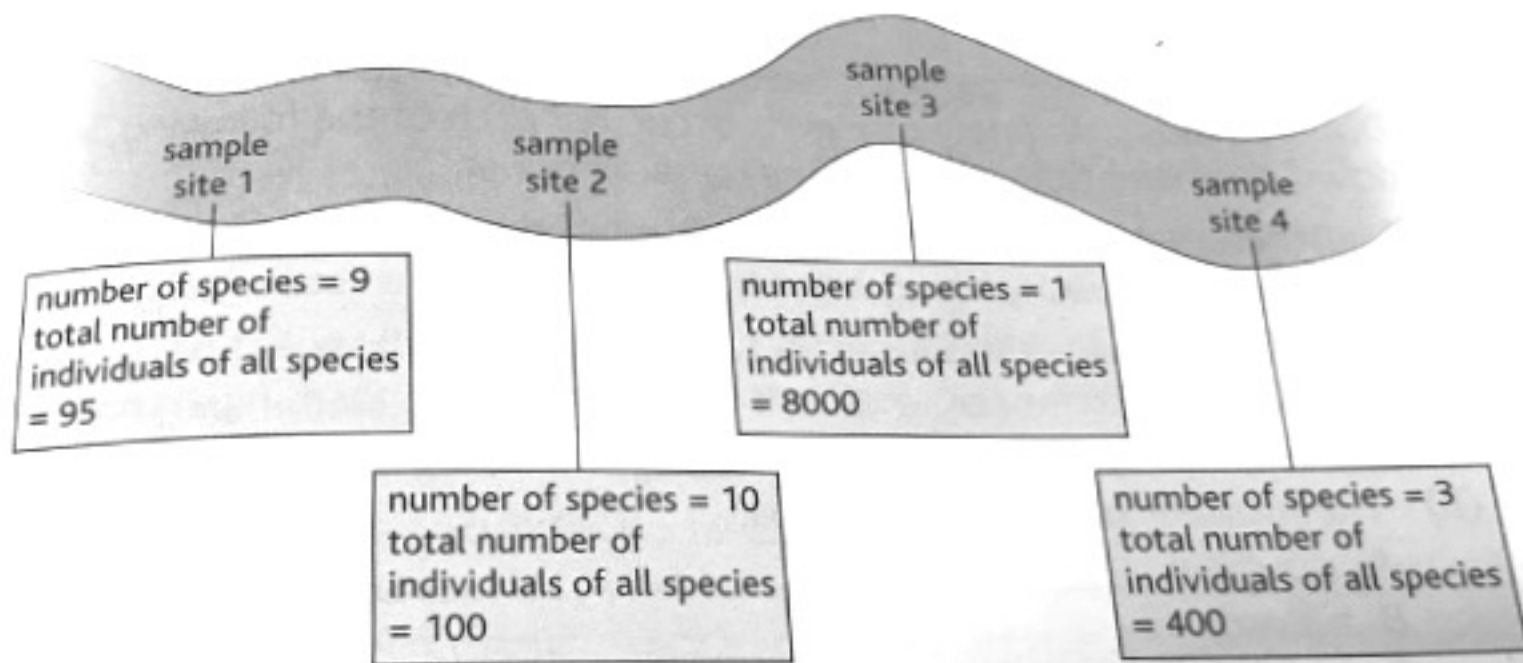


5 Biodiversity is a measure of biological variation and includes species richness and genetic diversity.

The diagram shows a stream that has been sampled at four different sites. The number of species and the total number of individuals of all species was recorded at each sample site.



- (a) Suggest which site has the highest species richness. Give a reason for your answer. (2)
- (b) Suggest why taking *one* sample at each site may reduce the reliability of the data. (1)
- (c) State the sample site that has the highest population density of organisms. (1)

Biology students try to solve this . Scheme will provided later to cross check

- 5 (a) Site 2;
(because) has greatest number of different species/10 species;
(and) species richness is a measure of the number of different species present in an area; 2
- (b) Idea that sample is not representative; 1
- (c) Site 3; 1

Total 4 marks