

Exam-style questions and sample answers have been written by the authors. In examinations, the way marks are awarded may be different.

# Workbook answers

## Chapter 18

### Exercise 18.1 Collecting and analysing data on species richness and species diversity

- 1 a Use a line transect or belt transect. You could run a tape from the lower shore to the upper shore, and either record every individual seaweed touching the tape along its whole length, or place quadrats (either touching each other, or at regular intervals apart) and record the abundance of the different seaweed species in each quadrat.
- b Use frame quadrats, placed randomly within each area, using random numbers as the coordinates of axes placed along two edges of the defined area. The size of the quadrat, and the number of quadrats used, should be identical in each area. A quadrat with 0.5 metre sides is likely to be suitable. You could then use an abundance scale (such as the Braun-Blanquet cover scale) or percentage cover to estimate the abundance of each species within each quadrat.

2 a–e

Species	$n$	$n + N$	$(n + N)^2$
A	282	0.230	0.053
B	141	0.115	0.013
C	376	0.307	0.094
D	0		
E	132	0.108	0.0019
F	21	0.017	0.00029
G	210	0.171	0.029
H	63	0.051	0.0026
Total	$N = 1225$	$\Sigma(n + N)^2 = 0.194$	

$$D = 1 - 0.194 = 0.806$$

f

Species	$n$	$n + N$	$(n + N)^2$
A	310	0.402	0.16
B	103	0.134	0.018
C	292	0.379	0.14
D	49	0.064	0.0041
E	2	0.0026	0.0000067
F	0		
G	14	0.019	0.00036
H	1	0.0013	0.0000016
Total	$N = 771$	$\Sigma(n + N)^2 = 0.322$	

$$D = 1 - 0.322 = 0.678$$

- g Area P has the greater species diversity.
- 3 a estimated population =  $(62 \times 73) \div 9 = 503$
- b We have to make several assumptions, and we cannot be sure that all of them hold true. For example:
- We assume that the marked woodlice are equally likely to survive as the unmarked ones. In practice, perhaps the markings made them more visible to predators, so the marked ones are under-represented in the second sample.
  - We assume that the marked woodlice mix perfectly and randomly with the rest of the population. In practice, perhaps the marked ones tended to remain together and did not completely mix into the rest of the population.
  - We assume that there is no bias when we catch the second sample. In practice, the marked ones may be more visible to us, and so we catch more of those than we should.

# Biology Study Workbook B Answers Chapter 18

**L Towne**



**Biology Study Workbook B Answers Chapter 18:**

## Whispering the Techniques of Language: An Psychological Journey through **Biology Study Workbook B Answers Chapter 18**

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