

Solutions

Each answer shows the steps, then the **result**.

2.1

- The number of different species

2.2

- How evenly individuals are distributed among the species

2.3

- Genetic, species, and habitat/ecosystem diversity

3.1 B

- spread fairly evenly among species

3.2

(a)

- Community Y

(b)

- Both have the same richness (8 species), but Y has higher evenness (no single dominant species), so Y is more diverse

3.3

- With more species filling more roles, if one is lost others can compensate, so the ecosystem keeps functioning and recovers from disturbance