

# 2024 Bi H1 Q25

## Section: Sustainability and Interdependence

### Topic: Biodiversity

#### Question Summary:

The bar chart shows proportions of different mammal species in two African habitats. The question asks for a comparison of species richness and diversity between the two habitats.

#### Worked Solution:

- Species richness refers to the number of different species present.
- Species diversity takes into account both the number of species and how evenly individuals are distributed among them.
- In habitat 1, the species are more evenly distributed, meaning higher diversity.
- However, habitat 1 has fewer species overall than habitat 2, meaning lower richness.

Therefore, compared with habitat 2, habitat 1 has lower species richness but higher species diversity.

Final Answer: **B** (Lower species richness and higher species diversity).

#### Revision Tips:

- Richness = number of species.

- Diversity = richness + evenness (distribution).
- A community with equal numbers of individuals per species has high diversity, even if richness is lower.