

Figure 4(a)

Number of individuals per hectare

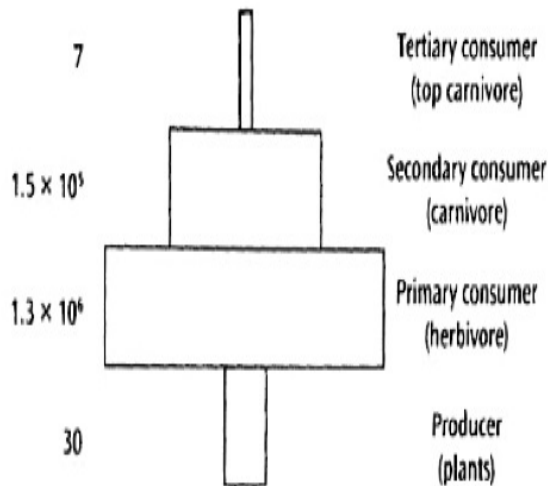
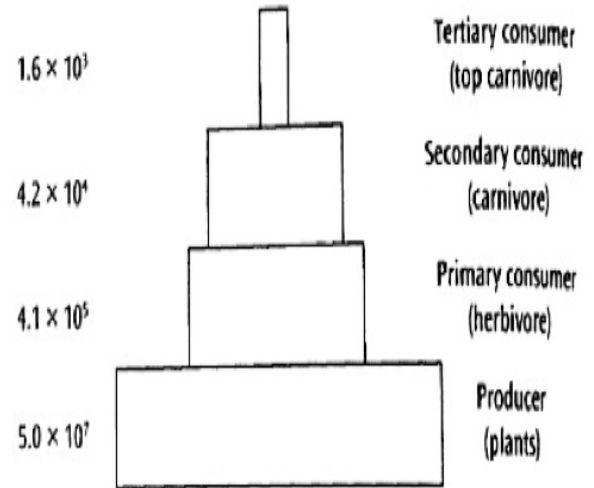


Figure 4(b)

Energy flow/kJ ha⁻¹yr⁻¹



[Source: Chapman, J and Reise M. Ecology: Principles and Application. 1999. Cambridge University Press.]

- (a) Explain why the pyramid of numbers in Figure 4(a) has fewer producers than consumers. [1 mark]
- (b) For an ecosystem you have studied, draw a food chain of at least four named species. [1 mark]
- (c) State one other type of pyramid used to show trophic levels. [1 mark]
- (d) Evaluate pyramids of numbers as a method of representing the biotic components of an ecosystem. [2 marks]