

Solutions

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

2.1

- Any one: competition, disease, predation, waste build-up

2.2

- Any one: weather, natural disaster, temperature

2.3

- Density-dependent factors

3.1 B

- a density-dependent factor

3.2

(a)

- Density-independent

(b)

- A flood affects the same proportion of organisms whether the population is large or small — its effect does not change with density

3.3

- As density rises, competition, disease, and predation increase, raising deaths and lowering births; this pushes the population back down toward the carrying capacity