

Solutions

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

2.1

- The maximum population an environment can support long-term

2.2

- When a population grows past its carrying capacity

2.3

- Any one: food, water, space, disease

3.1 B

- a die-off (crash)

3.2

(a)

- A die-off (crash) — resources are used faster than they renew, so many individuals die

(b)

- Any one: competition, disease

3.3

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