Solutions

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

2.1

- NPP = GPP − respiration

2.2

- NPP = 800 − 300 = 500

2.3

- Any one: tropical rainforest, estuary, coral reef, wetland

3.1 B

- available to consumers after producer respiration

3.2

(a)

- NPP = 1200 − 500 = 700 kcal/m^2/yr

(b)

- The energy available to the consumers (the rest of the food web)

3.3

- A rainforest has abundant warmth, water, and sunlight, so producers photosynthesize much more than in a dry, resource-poor desert, giving higher NPP