



CHECK YOUR LEARNING

Suggested Answers

1. Sample answer: Animals must move and be supported. The musculoskeletal system does this by way of bones, which support the body and protect internal organs, and muscles, which pull the bones in different directions.
2. An organ such as a lung, heart, or stomach must do many things. A stomach, for example, must contract, so it needs muscle cells. It must have a lining and secrete enzymes and mucus, so it needs epithelial cells. It must be able to sense when it is full and receive signals for its muscle cells to contract, so it needs nerve cells. All of these cell types must be held together, so the stomach needs connective tissue cells.
3. **(a)** Sample answer: All animals evolved from common ancestors who had organ systems that met the basic needs for life.
(b) Sample answer: Life in different environments probably causes organ systems to change, adapt, and be structured in different ways to allow animals survive.