## 4.1 Assessment

Match each term on the left with the best descriptor on the right. Each descriptor may be used only once.

Term	Descriptor
1 asthenosphere	A. solid outer layer of Earth
2 crust	B. molten rock from inside Earth
3 mantle	C. partly melted part of the mantle
4 outer core	D. deepest solid Earth layer
5 inner core	E. solid Earth layer that is part of two other Earth layers
6 lithosphere	F. deepest liquid Earth layer
7 magma	G. Earth layer that has a portion that can flow

Circle the letter of the best answer for questions 8 to 18.

- 8. Which Earth process is explained by the theory of plate tectonics?
  - A. climate

C. weathering

B. mountain building

- D. both B and C
- 9. Which of the following statements is true of the supercontinent Pangaea?
  - A. Its existence would support the idea of "fixism."
  - **B.** It sank into the ocean.
  - C. It is believed to have existed about 200 million years ago.
  - D. The present-day African continent was not a part of it.
- 10. Our scientific understanding of Earth's layers is based on
  - A. analyzing how earthquake waves travel through Earth's interior
  - B. inference
  - C. indirect evidence
  - **D.** all of the above
- 11. Earth's only liquid layer is called
  - A. the crust

C. the mantle

**B.** the outer core

D. the inner core

- **12.** Identify the accurate statement(s).
  - A. The theory of plate tectonics and the continental drift hypothesis are the same idea.
  - **B.** The theory of plate tectonics includes the continental drift hypothesis.
  - C. The continental drift hypothesis includes the theory of plate tectonics.
  - **D.** A and C are both accurate.
- 13. The layer on which Earth's tectonic plates move is called
  - **A.** the lithosphere
  - **B.** the asthenosphere
  - **C.** the mantle
  - **D.** the crust
- 14. Earth's hottest layer is
  - A. solid
  - **B.** the outer core
  - C. able to flow
  - **D.** both B and C
- 15. Earth's thin, outer layer is called
  - A. the crust
  - **B.** the outer core
  - C. the mantle
  - D. the inner core
- 16. The age of ocean rocks as you move away from a mid-ocean ridge
  - A. increases in both directions
  - **B.** is constant
  - **C.** decreases in both directions
  - **D.** increases in one direction and decreases in the other

- 17. Sea floor spreading
  - A. supports the idea that continents move
  - B. explains how new oceanic crust is made
  - C. occurs at a mid-ocean ridge
  - **D.** all of the above are true
- 18. The theory of plate tectonics is a unifying theory because it explains
  - A. how and why continents move
  - B. why and where earthquakes occur
  - C. how and why sea floor spreading occurs
  - **D.** all of the above
- **19.** Complete the graphic organizer below. Fill in examples from the Topic using key terms as well as your own words.

