

Skills Worksheet

Critical Thinking**ANALOGIES**

Mark the letter of the pair of terms that best completes the each of the analogies shown. An analogy is a relationship between two pairs of words or phrases written as **a : b :: c : d**. The symbol **:** is read "is to," and the symbol **::** is read "as."

- | | |
|---|--|
| _____ 1. understory : light ::
a. canopy : epiphytes
b. desert : water
c. emergent layer : snakes
d. grassland : antelopes | _____ 7. rain forest : vegetation ::
a. taiga : altitude
b. desert : animals
c. savanna : bison
d. grassland : topsoil |
| _____ 2. cold : migration ::
a. trees : deforestation
b. heat : estivation
c. water : vegetation
d. temperature : elevation | _____ 8. high latitude : poles ::
a. high altitude : cold
b. low latitude : tropics
c. low altitude : warmth
d. equator : humidity |
| _____ 3. savanna : tropical ::
a. desert : dry
b. grassland : fertile
c. taiga : temperate
d. tundra : arctic | _____ 9. deforestation : flooding ::
a. trading : habitat
destruction
b. transpiration : water
vapor
c. precipitation : rainfall
d. adaptation : predators |
| _____ 4. conifers : taiga ::
a. sand : desert
b. permafrost : tundra
c. shrubs : chaparral
d. trees : savanna | _____ 10. tundra plants : wide, shallow
roots ::
a. tropical rain forest trees :
buttresses
b. chaparral plants : fires
c. conifers : acidic soil
d. savanna plants : deep root
systems |
| _____ 5. logging : forest ::
a. farming : desert
b. flooding : chaparral
c. overgrazing : grassland
d. hunting : tundra | |
| _____ 6. spines : cactus ::
a. leaves : succulents
b. lichens : moss
c. scaly skin : reptiles
d. camouflage : animals | |

Critical Thinking *continued*

INTERPRETING OBSERVATIONS

Examine the following descriptions, and answer the questions that follow.

Plant #1 is tall, with broad leaves that turn color in autumn.

Plant #2 has a waxy coating, spines, and a long and shallow root system.

Plant #3 has needle-like leaves and a pyramid shape, and is able grow in acidic soil.

- 11.** What is the common name of plant #1 and what biome would it most likely grow in? Name one adaptation that helps it survive in its biome.

- 12.** What is the common name of plant #2 and what biome would it most likely grow in? Name one adaptation that helps it survive in its biome.

- 13.** What is the common name of plant #3 and what biome would it most likely grow in? Name one adaptation that helps it survive in its biome.

Critical Thinking *continued*

AGREE OR DISAGREE

Agree or disagree with the following statements, and support your answer.

14. Many types of ecosystems can exist within a given biome.

15. The conversion of grasslands to croplands was necessary.

16. Our ability to fight certain diseases is threatened by habitat destruction.

Critical Thinking *continued*

REFINING CONCEPTS

The statements below challenge you to refine your understanding of concepts covered in the chapter. Think carefully, and answer the questions that follow.

- 17.** Recommend a strategy for incorporating sustainable human activity into a tropical rain forest biome.

- 18.** Brush fires are common in dry biomes, such as temperate grasslands, chaparral, and the taiga. Is fire beneficial or harmful to biomes? Defend your answer.

- 19.** How does plant height affect the behavior of animals in a savanna? Describe how some animals have adapted.
