

Skills Worksheet

Directed Reading

Section: Introduction to Cells

Read each question, and write your answer in the space provided.

1. How and when did scientists discover cells?

2. What is the cell theory? Who formulated it and when?

3. How do cells vary in shape?

4. Why is it an advantage for cells to be small?

In the space provided, write the letter of the description that best matches each term.

_____ 5. cell membrane

_____ 6. cytoplasm

_____ 7. DNA

_____ 8. ribosome

_____ 9. organelles

_____ 10. nucleus

a. cell fluid and structures

b. cell structure where proteins are made

c. cell structures that carry out specific functions

d. genetic information

e. membrane-bound structure that houses a cell's DNA

f. the outer boundary of a cell

Directed Reading *continued*

Read each question, and write your answer in the space provided.

11. What are prokaryotes, what are they like, and when did they arise?

12. How do eukaryotes differ from prokaryotes? When did eukaryotes arise?

Write *p* if the cell feature is found in prokaryotes. Write *e* if the cell feature is found in eukaryotes. Write *b* if the cell feature is found in both prokaryotes and eukaryotes.

_____ 13. cell membrane

_____ 14. cytoplasm

_____ 15. capsule

_____ 16. DNA

_____ 17. ribosomes

_____ 18. organelles

_____ 19. nucleus