

Skills Worksheet

Active Reading

Section: Inside the Eukaryotic Cell

Read the passage below. Then answer the questions that follow.

Vesicles that contain newly made proteins move from the **endoplasmic reticulum** (ER), through the cytoplasm, to an organelle called the **Golgi apparatus**. The Golgi apparatus is a set of flattened, membrane-bound sacs that serves as the packaging and distribution center of the cell. Protein-containing vesicles from the ER enter one side of the Golgi apparatus. Enzymes inside the Golgi apparatus modify those proteins. The modified proteins are then enclosed in new vesicles that bud from the surface of the other side of the Golgi apparatus. Many of these vesicles move to the cell membrane and release their contents outside the cell. The ER and the Golgi apparatus work together in the production, packaging, and distribution of proteins.

SKILL: READING EFFECTIVELY

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

1. Describe the path that vesicles containing newly made proteins take in the cell.

2. What is the Golgi apparatus?

3. How do proteins arrive at the Golgi apparatus, and what happens to them there?

Active Reading *continued*

4. What happens to many of the protein-containing vesicles when they are released from the Golgi apparatus?

In the space provided, write the letter of the term or phrase that best answers each question.

- _____ 5. Where do proteins that enter the Golgi apparatus come from?
a. cell nucleus
b. endoplasmic reticulum
c. outside the cell
d. digested materials inside the cell
- _____ 6. What role do vesicles play in processing the proteins in the Golgi apparatus?
a. They create the proteins.
b. They modify the proteins.
c. They store the proteins.
d. They transport the proteins.