BIOLOGY: Chapter 9-Cellular Respiration

Multiple Choice
Identify the letter of the choice that best completes the statement or answers the question.

____ 1. Which of the following is the correct sequence of events in cellular respiration?
a. glycolysis → fermentation → Krebs cycle
b. Krebs cycle → electron transport → glycolysis
c. glycolysis → Krebs cycle → electron transport
d. Krebs cycle → glycolysis → electron transport

____ 2. Which of the following is released during cellular respiration?
a. oxygen
b. air
c. energy
d. lactic acid

____ 3. Cellular respiration uses one molecule of glucose to produce
a. 2 ATP molecules.
b. 34 ATP molecules.
c. 36 ATP molecules.
d. 38 ATP molecules.

____ 4. What is the correct equation for cellular respiration?
a. $6O_2 + C_6H_{12}O_6 \rightarrow 6CO_2 + 6H_2O + \text{Energy}$
b. $6O_2 + C_6H_{12}O_6 + \text{Energy} \rightarrow 6CO_2 + 6H_2O$
c. $6CO_2 + 6H_2O \rightarrow 6O_2 + C_6H_{12}O_6 + \text{Energy}$
d. $6CO_2 + 6H_2O + \text{Energy} \rightarrow 6O_2 + C_6H_{12}O_6$

____ 5. Cellular respiration releases energy by breaking down
a. food molecules.
b. ATP.
c. carbon dioxide.
d. water.

____ 6. What are the reactants in the equation for cellular respiration?
a. oxygen and lactic acid
b. carbon dioxide and water
c. glucose and oxygen
d. water and glucose

____ 7. Which of these is a product of cellular respiration?
a. oxygen
b. water
c. glucose
d. all of the above

____ 8. Which of these processes takes place in the cytoplasm of a cell?
a. glycolysis
b. electron transport
c. Krebs cycle
d. all of the above

____ 9. Glycolysis provides a cell with a net gain of
a. 2 ATP molecules.
b. 4 ATP molecules.