

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?
- glycolysis → fermentation → Krebs cycle
 - Krebs cycle → electron transport → glycolysis
 - glycolysis → Krebs cycle → electron transport
 - Krebs cycle → glycolysis → electron transport
- _____ 2. Which of the following is released during cellular respiration?
- oxygen
 - air
 - energy
 - lactic acid
- _____ 3. Cellular respiration uses one molecule of glucose to produce
- 2 ATP molecules.
 - 34 ATP molecules.
 - 36 ATP molecules.
 - 38 ATP molecules.
- _____ 4. What is the correct equation for cellular respiration?
- $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy}$
 - $6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 + \text{Energy} \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$
 - $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow 6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6 + \text{Energy}$
 - $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy} \rightarrow 6\text{O}_2 + \text{C}_6\text{H}_{12}\text{O}_6$
- _____ 5. Cellular respiration releases energy by breaking down
- food molecules.
 - ATP.
 - carbon dioxide.
 - water.
- _____ 6. What are the reactants in the equation for cellular respiration?
- oxygen and lactic acid
 - carbon dioxide and water
 - glucose and oxygen
 - water and glucose
- _____ 7. Which of these is a product of cellular respiration?
- oxygen
 - water
 - glucose
 - all of the above
- _____ 8. Which of these processes takes place in the cytoplasm of a cell?
- glycolysis
 - electron transport
 - Krebs cycle
 - all of the above
- _____ 9. Glycolysis provides a cell with a net gain of
- 2 ATP molecules.
 - 4 ATP molecules.