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Question 2 (continued)

(b) Use each of the following observations to **justify** the claim that glycolysis first occurred in a common ancestor of all living organisms.

- Nearly all existing organisms perform glycolysis.
- Glycolysis occurs under preconditions on Earth.
- Glycolysis occurs only in the cytosol.

Observation	Justification (1 point each box; 3 points maximum)
Nearly all existing organisms perform glycolysis.	• That glycolysis occurs on Earth early on if we look into the fossil record shows highly conserved. • Glycolysis provided a pathway for evolution that we see present on the descendants.
Glycolysis occurs and is premodern conditions.	Origin of glycolysis pre-dates from atmospheric oxygen/photolithotrophic.
Glycolysis occurs only in the cytosol.	Origin of glycolysis pre-dates cell types with membrane-bound organelles/prokaryotes/eukaryotes.

(c) A researcher estimates that, in a certain organism, the complete metabolism of glucose produced 30 molecules of ATP for each molecule of glucose. The energy released from the total oxidation of glucose under standard conditions is 686 kcal/mol. The energy released from the hydrolysis of ATP to ADP and inorganic phosphate under standard conditions is 7.3 kcal/mol. **Calculate** the amount of energy available from the hydrolysis of 30 moles of ATP. **Calculate** the efficiency of total ATP production from 1 mole of glucose in the organism. **Describe** what happens to the excess energy that is released from the metabolic form of glucose.

	Calculations/descriptions (1 point each box; 3 points maximum)
Calculate available energy in ATP	210 kcal
Calculate efficiency	$0.31 = 0.32$ or $31 = 32\%$
Describe fate of excess energy	Released as heat/increased entropy

(d) The synthesis of the Krebs cycle functions in the cytosol of bacteria, but among eukaryotes the process functions mostly in the mitochondria. **Phase** is a scientific question that connects the subcellular location of the process in the Krebs cycle to the evolution of eukaryotes.

Question (1 point)

- A valid scientific question related to evolution of eukaryotes (e.g., Since the Krebs cycle occurs in the "cytoplasm" of the mitochondria (matrix), does it suggest that mitochondria were once prokaryotes?)

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