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Key

Distributive Property: Make it Simple!

Rewrite each of the following equations using the distributive property. Write the correct answer for each problem. Remember to show your work.

Example: $7 \times 32 = 224$ $(7 \times 30) + (7 \times 2)$
 $210 + 14$
 224

Actual student answers may vary. Examples of correct answers:

A) $6 \times 55 = 330$ $(6 \times 50) + (6 \times 5)$
 $300 + 30$
 330

B) $9 \times 74 = 666$ $(9 \times 70) + (9 \times 4)$
 $630 + 36$
 666

C) $12 \times 140 = 1680$ $(12 \times 100) + (12 \times 40)$
 $1200 + 480$
 1680

D) $8 \times 112 = 896$ $(8 \times 110) + (8 \times 2)$
 $880 + 16$
 896

E) $30 \times 156 = 4680$ $(30 \times 150) + (30 \times 6)$
 $4500 + 180$
 4680

6. The chemical equation for the synthesis of ATP is: $ADP + P_i \leftrightarrow ATP + H_2O$. $\Delta G^\circ = +7.3$ kcal/mol.
 A) Write the chemical equation for the hydrolysis of ATP and note the value of the standard free energy change for this reaction.

B) The actual concentrations of ATP, ADP and P_i differ by tissue/cell type (see table).

Tissue/Cell Type	ATP (mM)	ADP (mM)	P_i (mM)
Liver	3.5	1.8	5.0
Skeletal Muscle	8.0	0.9	8.0
Brain	2.6	0.7	2.7

Calculate $\Delta G'$ for ATP hydrolysis in liver, muscle, and brain (NOTE: assume 25°C and omit the concentration of water in your calculations). In which cell/tissue type does the free energy of hydrolysis provide the most energy to do work?

Name _____ Date _____ Class _____

Study Guide

CHAPTER 8 Section 1: How Organisms Obtain Energy

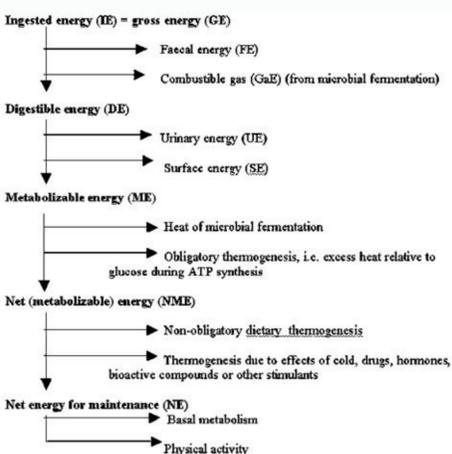
In your textbook, read about how organisms obtain energy.
 Match the definition in Column A with the term in Column B.

Column A	Column B
<u>C</u> 1. the idea that energy cannot be created or destroyed	A. energy
<u>E</u> 2. all the chemical reactions in a cell	B. thermodynamics
<u>F</u> 3. anabolic pathway that converts energy from the Sun to chemical energy for use by cells	C. first law of thermodynamics
<u>A</u> 4. ability to do work	D. second law of thermodynamics
<u>H</u> 5. series of chemical reactions in which the product of one reaction is the substrate for the next reaction	E. metabolism
<u>I</u> 6. biological molecule that provides chemical energy	F. photosynthesis
<u>B</u> 7. study of the flow and transformation of energy	G. cellular respiration
<u>J</u> 8. source of nearly all energy for life	H. metabolic pathway
<u>G</u> 9. catabolic pathway that breaks down organic molecules	I. adenosine triphosphate (ATP)
<u>D</u> 10. spontaneous increase in disorder, or entropy	J. sunlight

Use each of the terms below only once to complete the passage.

aerobic anaerobic ATP cellular respiration cytoplasm energy
 glucose glycolysis mitochondria NADH oxygen

Organisms obtain energy in a process called (1) cellular respiration. This process harvests electrons from carbon compounds, such as (2) glucose, and uses that energy to make (3) ATP. ATP is used to provide (4) energy for cells to do work. In (5) glycolysis, glucose is broken down into pyruvate. Glycolysis is a(n) (6) anaerobic process because it does not require oxygen. Glycolysis takes place in the (7) cytoplasm. Two molecules of ATP and two molecules of (8) NADH are formed for every glucose molecule that is broken down. (9) aerobic respiration takes place in the (10) mitochondria. It is aerobic because the process requires (11) oxygen.



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