

NAME: \_\_\_\_\_

1. Draw  $\alpha$ -D-glucose.
  
2. Draw pyruvate.
  
3. How many total (all together) C-C and C-H bonds are present in glucose?
4. How many total (all together) C-C and C-H bonds are present in **two** pyruvate molecules?
5. What is the numerical difference between your answers for #3 and #4?
  
6. How many redox reactions occur in the pathway of glucose becoming two pyruvate molecules?
  
7. Identify the enzymes that catalyze the redox steps.

<b>Fed (Hepatocyte)</b>	Increasing	Decreasing	N/A
Blood glucose			
Blood [Insulin]			
Insulin Receptor Signal			
Blood [Glucagon]			
Glucagon Receptor Signal			
[cAMP]			
Flux through GLUT2			
Flux through GLUT4			
Regulated Enzyme Phosphorylation Level			
Flux through glycolysis			
[Fructose-2,6-bisphosphate]			
Activity of Phosphofruktokinase-2			
Activity of Fructose-2,6-bisphosphatase			

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Quiz 11