

NAME: _____

QUIZ 13

1. For the process of glycolysis where one glucose is converted into two pyruvate, how many net ATP are produced or consumed. Indicate both the magnitude and the sign of the value. Some steps produce ATP, and some consume ATP. For this question respond with the final overall net value when all steps are taken into consideration. Answer with one value.
2. For the process of gluconeogenesis where two pyruvate are converted into one glucose, how many net ATP are produced or consumed. Indicate both the magnitude and the sign of the value. Some steps produce ATP, and some consume ATP. For this question respond with the final overall net value when all steps are taken into consideration. Answer with one value.
3. If a cell was unable to regulate glycolysis and gluconeogenesis such that one glucose was converted to two pyruvate via glycolysis and immediately converted back to glucose via gluconeogenesis, how many net ATP would be produced or consumed in the final overall cycle when all steps are taken into consideration. Answer with one value.