

Name: Key

Quiz 19

For glucose conversion to two pyruvates via glycolysis:

- How many NADH are produced? 2
- How many FADH₂ are produced? 0
- How many ATP equivalents (ATP, GTP, and UTP) are gained overall? 2

For the complete conversion of two pyruvates to six CO₂ via pyruvate dehydrogenase and the Krebs cycle:

- How many NADH are produced? 8
- How many FADH₂ are produced? 2
- How many ATP equivalents (ATP, GTP, and UTP) are gained overall? 2

For the processing of ten NADH and 2 FADH₂ via the electron transport chain:

- How many ubiquinone are cycled? 12
- How many Cytochrome C are cycled? 24
- How many O₂ are used? 6
- How many H₂O are generated? 12
- What is the magnitude of the proton gradient created across the inner mitochondrial membrane?

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