

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

Quiz 23

Fill in the Blanks:

1. There are \_\_\_\_\_ total C-C and C-H bonds present in glucose.
2. The complete oxidation of glucose via glycolysis and the TCA cycle yields \_\_\_\_\_ NADH and \_\_\_\_\_ FADH<sub>2</sub>. Compare to #1.
3. The complete oxidation of the number of NADH and FADH<sub>2</sub> indicated in #2 to NAD<sup>+</sup> and FAD via the electron transport chain will transfer \_\_\_\_\_ electrons to O<sub>2</sub> creating \_\_\_\_\_ H<sub>2</sub>O.
4. The transfer of the number of electrons indicated in #3 to O<sub>2</sub> is coupled to the development of a gradient of \_\_\_\_\_ protons across the inner mitochondrial membrane.

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