Name: Key

Quiz 17

Consider one acetyl-CoA and one oxaloacetate going to one succinate.

1. How many total C-C and C-H bonds are present in one acetyl-CoA? 4
2. How many total C-C and C-H bonds are present in one oxaloacetate? 5
3. How many total C-C and C-H bonds are present in one succinate? 7
4. How many NADH are produced? 2
5. Which enzymes catalyze reactions where NADH is produced?

   Isocitrate dehydrogenase α-ketoglutarate dehydrogenase
6. How many CO_2 are produced? 2
7. Which enzymes catalyze reactions where CO_2 is produced?

   Isocitrate dehydrogenase α-ketoglutarate dehydrogenase
8. How many ATP equivalents are produced? 1
9. Which enzymes catalyze reactions where ATP equivalents are produced?

   succinyl-CoA synthetase