

Name: Key

Quiz 16

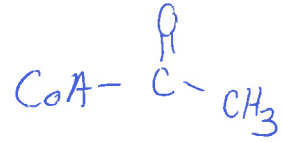
Consider one glucose going to two acetyl-CoA

1. How many total C-C and C-H bonds are present in glucose?

12

2. How many total C-C and C-H bonds are present in two acetyl-CoA?

8



3. How many NADH are produced?

4

4. Which enzymes catalyze reactions where NADH is produced?

glyceraldehyde-3-phosphate dehydrogenase
pyruvate dehydrogenase

5. How many CO₂ are produced?

2

6. Which enzymes catalyze reactions where CO₂ is produced?

pyruvate dehydrogenase

7. How many ATP are produced (total)?

4

8. Which enzymes catalyze reactions where ATP is produced?

Phosphoglycerate kinase
Pyruvate kinase

9. How many ATP are used (total)?

2

10. Which enzymes catalyze reactions where ATP is used?

hexokinase or glucokinase
phosphofruktokinase -1