

## Questions for Pima Paradox Paper

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- 1) Explain why "the fat gene" may have been adaptive to the previous lifestyle of the Pima Indians.
  
  
  
  
  
  
  
  
  
  
- 2) Do you think obesity is highly heritable?
- 3) Because obesity is influenced by many genes it is a \_\_\_\_\_ trait.
- 4) What hormone regulates conversion of sugar in your bloodstream to fat?
- 5) What major diet attempts to regulate insulin levels?
- 6) What is the function of the protein leptin?
  
  
  
  
  
  
  
  
  
  
- 7) Obese individuals make normal amounts of leptin, yet are still obese. Explain.
  
  
  
  
  
  
  
  
  
  
- 8) Scientists frequently use small isolated populations with a high incidence of a genetic disease to identify the genetic basis of the disease. Was this an effective strategy for understanding the genetic basis of obesity in the Pima Indians? Why or Why not?