

# ORGANIC MACROMOLECULES HOMEWORK



**Directions:** Using your textbook or internet resources, answer the questions below using complete sentences.

1. You get a slice of pepperoni pizza for lunch. What part is the lipid, what part is the carbohydrate, and what part is the protein?
2. Out of carbohydrate, lipid, and protein, which is non-polar?
3. If you want to avoid raising your lipids and cholesterol levels, you should avoid eating:  
a) Romaine salad   b) baked potatoes   c) steak   d) sorbet

Why?

4. Which has the least amount of lipids?  
a) Ice cream   b) grapefruit   c) pasta   d) chocolate

Why?

5. How many amino acids are there?

6. A protein is a polymer of which building blocks?  
a) sugar   b) amino acids   c) fatty acids   d) nucleotides

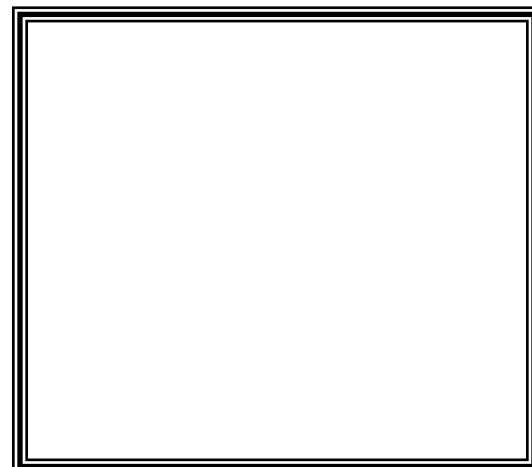
Why?

7. Proteins are found in what part of your body? Name 2 places.

8. What is a nucleic acid? What does it do, or, what is its function?

9. What are the two major nucleic acids?

10. Draw a nucleotide in box to the right.



11. This polysaccharide makes the cell walls of plants. What is it called?

12. Write down an example of a monosaccharide: \_\_\_\_\_

13. Give one example of a disaccharide: \_\_\_\_\_

**Honors Challenge:**

As matter and energy flow through different organizational levels of living systems, chemical elements are recombined in different ways to form different products. Research an example where this can be observed in the human body. Cite your resource.

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