

Name _____

Date _____

Warm-Up: Properties of Water

Choose whether the statement is true or false. Circle your choice.

1. *true / false* Polar molecules have two regions with a slight positive charge.
2. *true / false* Water is a polar molecule.
3. *true / false* Slightly charged regions of water molecules form hydrogen bonds.

Circle the best answer for the question.

4. Which property allows water to resist changes in temperature?
a. high specific heat c. adhesion
b. cohesion d. polarity
5. Which property causes water to form beads?
a. high specific heat c. adhesion
b. cohesion d. polarity
6. Which property of water helps plants to transport water from their roots to their leaves?
a. high specific heat c. adhesion
b. cohesion d. polarity

Circle the word or phrase that best completes the sentence.

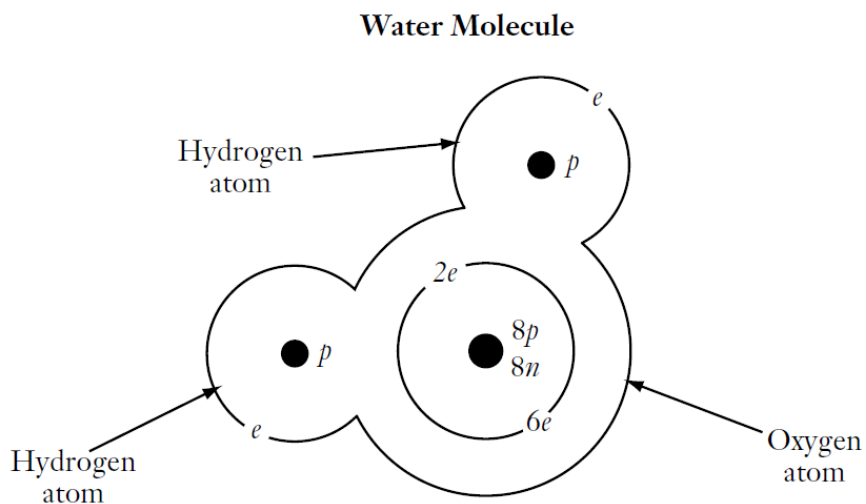
7. A solution is a mixture of substances that is ***evenly / unevenly*** distributed throughout the entire mixture.
8. Blood plasma is an example of a ***solvent / solute***.
9. "Oil and water don't mix" because a ***polar / nonpolar*** molecule can't easily dissolve in a polar solvent.

Fill in the blank with either ***solvent or solute***.

10. A _____ dissolves in a solution.

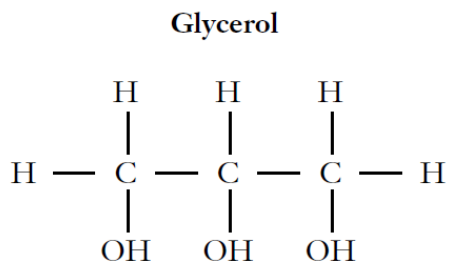
Study the Diagram

Use the diagram to answer the questions.



3. How many electrons does a water molecule have? _____
4. How many protons does a water molecule have? _____
5. Each hydrogen atom shares _____ electron(s) with the oxygen atom.

Use the diagram to answer the questions.



6. How many bonds can each carbon atom (C) form? _____
7. With the carbon atoms bonded end-to-end with each other, what does this molecule look like?
_____ (chain, branch, ring)