Types of Matter and Mixtures - Check your understanding!

**True or False?** Answer these questions as a group. Check your answers when done.
Don’t peek at the answers ahead of time! ☺

1. \_\_\_\_\_\_ Oxygen (O2) is a mixture
2. \_\_\_\_\_\_ Air is a molecule.
3. \_\_\_\_\_\_ An element is made out of only
 one kind of atom.
4. \_\_\_\_\_\_ The atoms in a pure element are
 not bonded together.
5. \_\_\_\_\_\_ The atoms in a molecule are not
 bonded together.
6. \_\_\_\_\_\_ When looking at drawings of a
 molecule, the “spheres” often
 represent molecules, & lines or
 sticks represent the bonds
 connecting them.
7. \_\_\_\_\_\_ A molecule could be made of the
 same atoms or different atoms that
 are bonded together.
8. \_\_\_\_\_\_ Ozone (O3) is made of three
 oxygen atoms and is a compound.
9. \_\_\_\_\_\_ Water, salt and carbon dioxide are
 all molecules.
10. \_\_\_\_\_\_ Water, salt, and carbon dioxide are
 all compounds.
11. \_\_\_\_\_\_ NaCl is made out of four different
 kinds of atoms.
12. \_\_\_\_\_\_ H2O2 is made up of 2 hydrogen
 atoms and 2 oxygen atoms.
13. \_\_\_\_\_\_ Ammonia (NH3) is a compound.
14. \_\_\_\_\_\_ A water molecule is in the shape of
 a triangle.
15. \_\_\_\_\_\_ A carbon dioxide molecule has a
 single bond.
16. \_\_\_\_\_\_ Bonds are formed when the
 electrons in the outer shell are
 shared or transferred.
17. \_\_\_\_\_\_ Atoms are the building blocks of
 elements, molecules, compounds,
 and mixtures.
18. \_\_\_\_\_\_ Sodium Chloride, or table salt, is a
 compound.
19. \_\_\_\_\_\_ Air is a mixture of many different
 gas molecules.
20. \_\_\_\_\_\_ Pizza is a heterogeneous mixture.
21. \_\_\_\_\_\_ Salt water is a heterogeneous
 mixture.
22. \_\_\_\_\_\_ A solution is when one substance
 dissolves in another.
23. \_\_\_\_\_\_ In Kool Aid, water is the solute.
24. \_\_\_\_\_\_ In Kool Aid, the sugar is the solute.
25. \_\_\_\_\_\_ Another word for air is oxygen.
26. \_\_\_\_\_\_ Often when you look at the
 drawing of a compound, you will
 notice that there are different
 colored “spheres” bonded
 together.
27. \_\_\_\_\_\_ Tap water has many things
 dissolved in water. This means that
 tap water is a homogeneous
 mixture.
28. \_\_\_\_\_\_ Solutions are homogeneous
 mixtures.
29. \_\_\_\_\_\_ Pure water (H2O) is a compound
 and a molecule.