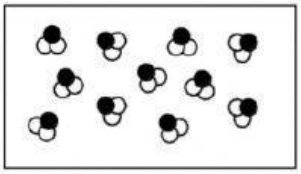
Name: _____ Page: _____

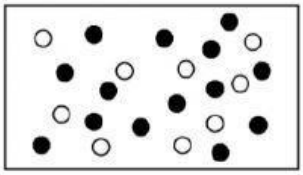
Mixtures, Solutions, and pH Review

1. Mixtures can be easily _____.
2. What is a mixture called when one substance is dissolved in another?
3. What is the substance called that makes the solute dissolve?
4. What is the substance called that gets dissolved?
5. When too much sugar is added to Kool-aid, no more dissolves and it settles to the bottom. What has this solution reached?
6. A substance with a pH less than 7 is a(n) _____. (acid, base, or neutral?)
7. A substance with a pH greater than 7 is a(n) _____. (acid, base, or neutral?)
8. Hydrochloric acid has a pH of 1, which makes it a _____ _____. (strong or weak acid or base, or neutral?)
9. Pure water has a pH of 7 which makes it _____. (strong or weak acid or base, or neutral?)
10. In Kool-Aid, what is the solute?
11. In Kool-Aid, what is the solvent?
12. If you mix equal amounts of a strong acid (pH: 2) with a strong base (pH: 13), what do you think the new pH of the mixture would be?
13. Is trail mix a mixture or solution? Explain why.
14. How could you separate a solution of salt water? (How can you get the salt out of the water after it has already been dissolved?)
15. How could you separate a mixture of paper clips, sand, and salt?
16. Water and sprite mixed is an example of a _____.
17. Oil and water mixed is an example of a _____.
18. Syrup is an example of a _____.

For #19-24, identify the picture as an <u>Element, Molecule, Compound, or Mixture</u>. Write the answer on the line.



19. _____



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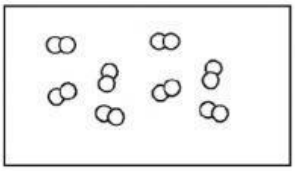

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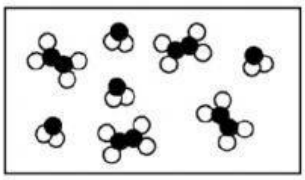

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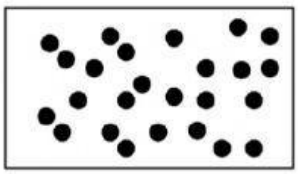

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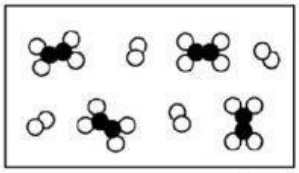

24. _____

25. Fill in the chart comparing Mixtures and Solutions. You need at least 3 things in each side and 2 in the middle section!

Mixtures	Both	Solutions