

Skills Worksheet

Directed Reading A

7-3

Section: Mixtures

1. A pizza is a(n) _____

PROPERTIES OF MIXTURES

2. A combination of two or more substances that are not chemically combined is a(n) _____

3. When two or more materials combine chemically, they form a(n) _____

4. How can you tell that a pizza is a mixture?

5. Mixtures are separated through _____ changes.

Match the correct method of separation with the each substance. Write the letter in the space provided. Each method may be used only once.

- 6. crude oil a. distillation
 - 7. aluminum and iron b. magnet
 - 8. parts of blood c. filter
 - 9. sulfur and salt d. centrifuge
10. Granite can be pink or black, depending on the _____ of feldspar, mica, and quartz.

SOLUTIONS

11. Which of the following is NOT true of solutions?
- a. They contain a dissolved substance called a solute.
 - b. They are composed of two or more evenly distributed substances.
 - c. They contain a substance called a solvent, in which another substance is dissolved.
 - d. They appear to be more than one substance.
12. The process in which particles of substances separate and spread evenly through a mixture is known as _____

14. Salt is _____ in water because it dissolves in water.

15. In a gaseous or liquid solution, the volume of solvent is greater than the volume of _____

16. A solid solution of metals or nonmetals dissolved in metals is a(n) _____

17. What can particles in solution NOT do because they are so small?

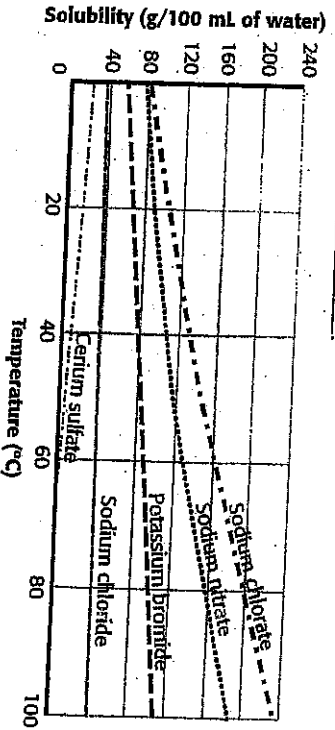
CONCENTRATION OF SOLUTIONS

18. A measure of the amount of solute dissolved in a solvent is called _____

19. What is the difference between a dilute solution and a concentrated solution?

20. The ability of a solute to dissolve in a solvent at a certain temperature is called _____

21. Solubility is dependent on _____ and _____



22. Look at the graph. Which solid is less soluble at higher temperatures than at lower temperatures?
- a. sodium chloride
 - b. sodium nitrate
 - c. potassium bromide
 - d. cerium sulfate

23. Look at the graph. Which compound's solubility is least affected by temperature changes?
- a. sodium chloride
 - b. sodium nitrate
 - c. potassium bromide
 - d. cerium sulfate

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Directed Reading A continued

24. Solubility of solids in liquids tends to _____ with an increase in temperature.
25. Solubility of gases in liquids tends to _____ with an increase in temperature.
26. What are three ways to make a sugar cube dissolve more quickly in water?

SUSPENSIONS

27. Which of the following does NOT describe a suspension?
- a. Particles are soluble.
 - b. Particles settle out over time.
 - c. Particles can block light.
 - d. Particles scatter light.
28. Why are the particles in a snowglobe considered a suspension?

COLLOIDS

29. What do gelatin, milk, and stick deodorant have in common?

Match the correct description with the correct term. Write the letter in the space provided.

- a. colloid
 - b. solution
 - c. suspension
30. a mixture of two or more uniformly dispersed substances _____
31. a mixture of particles that are large enough to scatter or block light _____
32. a mixture of particles that are relatively small and well mixed _____