

NAME

KEY

HR

(make the chemical blob say something)

1. Classify the following as pure substances or as mixtures

air M

gasoline M

grain mix for cattle M

M water from Vermilion sugar PS

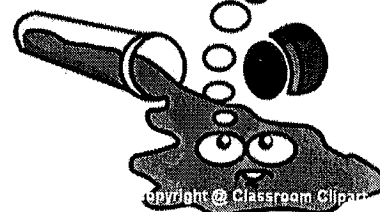
gold PS

mercury PS

oxygen PS

salt water M

my life is so hard



2. In the following list circle the ones that are Elements:

silver

carbon dioxide

rubbing alcohol

chromium

water

hydrogen

carbon

nitrogen

oxygen

gold

sugar

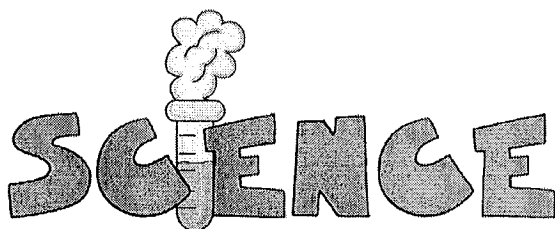
salt

air

sulfur

magnesium

nickel



3. Classify the following as an element, a compound, or a mixture.

aluminum E

raisin bread M

carbon dioxide C

distilled water C

sugar and water stirred M

quick sand M

sulfuric acid C

mercury E

an orange M

water and instant coffee M

a pencil M

carbon particles E

nitrogen E

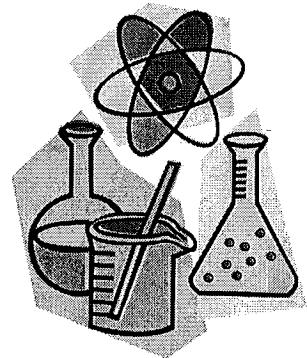
air M

gasoline M

zirconium E

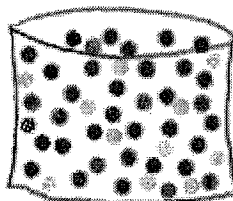
lanthanum E

sulfur E

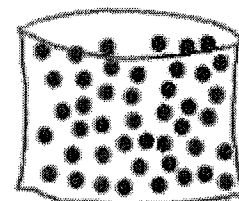


4. Explain why Tap water is a mixture and distilled water is a pure substance (in detail...don't skimp on the answer)

Tap water contains minerals, chlorine and gas bubbles. Distilled H₂O has none of those. therefore Pure Substance



Tap Water



Distilled

Hint

Elements, Compounds, and Mixtures

Classify each of the pictures below by placing the correct label in the blanks below:

A= Element — ONE COLOR !!!

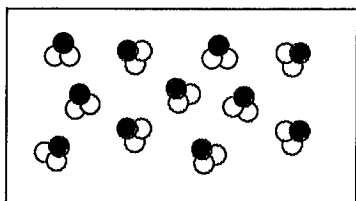
D= Mixture of compounds

B= Compound — 2 colors

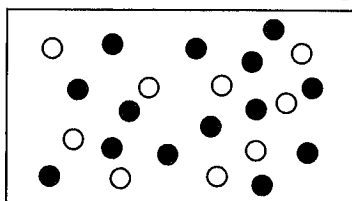
E= Mixture of elements and compounds

C= Mixture of elements

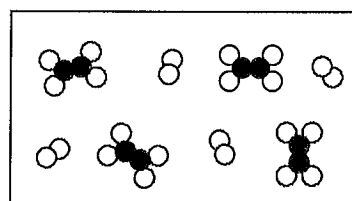
Each circle represents an atom and each different color represents a different kind of atom. If two atoms are touching then they are bonded together.



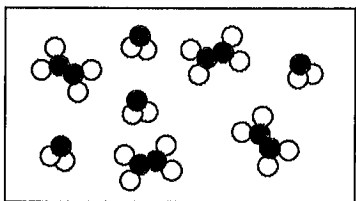
1) B



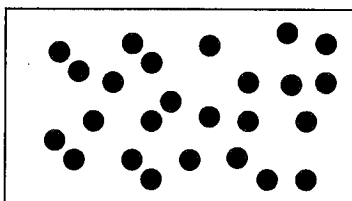
2) C



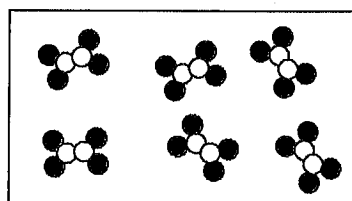
3) E



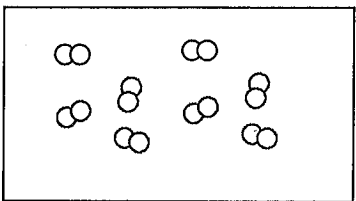
4) D



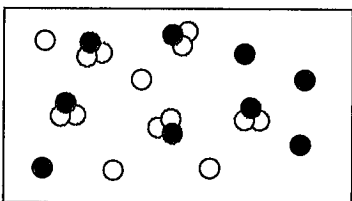
5) A



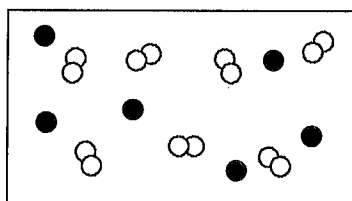
6) B



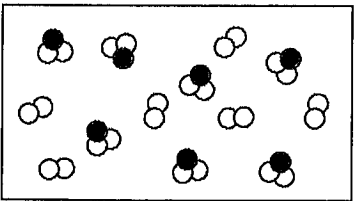
7) A



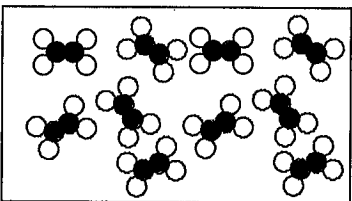
8) E



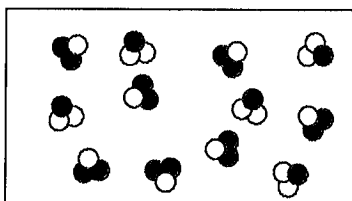
9) C



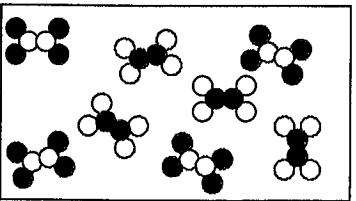
10) E



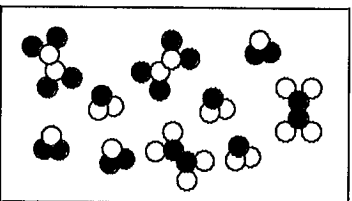
11) B



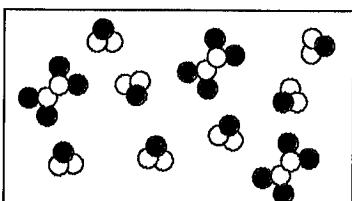
12) D



13) D



14) D



15) D