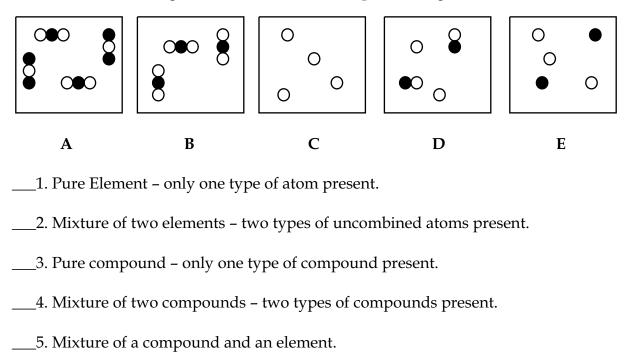
Elements, Compounds & Mixtures Worksheet

Part 1: Read the following information on elements, compounds and mixtures. Fill in the blanks where necessary.

the blanks where nec	essary.			
Elements:				
A pure substant	nce containing only one ki	nd of	_•	
• An element is	always uniform all the wa	y through (homogo	eneous).	
	be separated	into simpler mater	ials (except during	
nuclear reactio	,			
Over 100 exist:	ing elements are listed and	d classified on the _		
Compounds:				
A pure substar	nce containing two or mor	e kinds of	•	
• The atoms are combined in some way. Often times (but not				
always) they c	ome together to form grou	ups of atoms called	molecules.	
	s always homogeneous (u			
Compounds _	be se	parated by physica	l means. Separating a	
	uires a chemical reaction.			
	of a compound are usual	ly different than the	e properties of the	
elements it cor	ntains.			
Mixtures:				
• Two or more _	or	NO7	C chemically	
combined.			,	
	tween substances.			
 Mixtures can b 	e uniform (called		_) and are known as	
solutions.				
 Mixtures can a 	lso be non-uniform (called	d).	
	e separated into their con	-		
 The properties 	of a mixture are similar to	o the properties of i	ts components.	
		(-)	(0)	
	of the following as elemen	ts (E), compounds	(C) or Mixtures (M).	
Write the letter X if it	is none of these.			
Diamond (C) _	Sugar (C ₆ H ₁₂ O ₆)	Milk	Iron (Fe)	
Diamona (c) _	Sulfuric Acid (H ₂ SO ₄)	Gasoline	Electricity	
Krypton (K)	Bismuth (Bi)	Uranium (U)	Popcorn	
$\underline{\qquad}$ Water (H ₂ O)	Alcohol (CH3OH)	Pail of Garbage	1	
$_$ Ammonia (NH ₃) $_$	Salt (NaCl)	Energy	Gold (Au)	
Wood	Bronze	Ink	Pizza	
Dry Ice (CO ₂) _	Baking Soda (NaHCO ₃)	Titanium (Ti)	Concrete	

Part 3: Match each diagram with its correct description. Diagrams will be used once.



Part 4: Column A lists a substance. In Column B, list whether the substance is an element (E), a compound (C), a Heterogeneous Mixture (HM), or a Solution (S). (Remember a solution is a homogeneous mixture.) In Column C, list TWO physical properties of the substance.

Column A	Column B	Column C
1. Summer Sausage		
2. Steam		
3. Salt Water		
4. Pencil lead (Pb)		
5. Dirt		
6. Pepsi		
7. Silver (Ag)		
8. Toothpaste (Na ₂ HPO ₄)		
9. A burrito		
10. Italian Dressing		
11. Chicken Soup		
12. Lemonade		