Name:			
Period:		Accuracy and Precision	
Α			
	B	Classification of Matter	C
E	D A		

Examples of mixtures Homogenous: milk; salt water; vanilla ice cream Heterogeneous:

chicken soup;

orange juice

rocky road ice cream

throughout

Different

Ε

Same

throughout



One type of

atom only



More than one

element

letters-must be a compound

Examples of substances:

Elements: Iron (Fe) Oxygen (O₂)

Compounds: Rust (FeO₂) Carbon Dioxide (CO₂)

		5.0					2012							
	stance or non		Made up of two types of matter that can be physically separated.				an 1. M	Divide by 1000. This is the smallest standard metric prefix.						
2. Mixture b. Two samples might not be the same.					2. K	ilo-		b. The standard metric unit of mass; it		mass; it				
	erogeneous		c. Two samples will have the same makeup.			12.0	2 Cusus		is very small.					
d. Has only one kind of atom in the same						0.57(4), 0.55	3. Gram		 c. The standard metric unit of length; equal to 3.3 feet. 					
5 Element e. Contains two kinds of atoms that <i>can</i> -						4.34	ill <mark>i</mark> -		d. The standard metric unit of volume. Used to measure liquids.					
A STATE OF THE STA	mogeneous		not be physically separated. f. Cannot be separated by physical means			ns. 5. C	enti-	00	e. Means divide by 100. Easy to re-		to re-			
Mixture			g. A classification of anything that has			3	.tero		member by the word <i>cent</i> -ury.		100			
7. Compound mass and takes up space.						6. Li	6. Liter f. Prefix that means multiply by 1000.							
	eterogeneous	and hon	nogenous	mixtures	for:			Mark t	hese a	as elements (l	E) or com	pounds (C):	
Mixtu	<u>re</u>	Hetero	ogenous		Homogen	ious	Wate	Water (H ₂ O) Carbon Dioxide (CO ₂)						
Jello								Hydrogen (H) Sodium (Na)						
Ice cream						11100						777-1177-1555		
Soup							Hem	um (He)_		Silver	r (Ag)		7717.00	
Look at each target and decide whether the "hits" are accurate, precise, both accurat														
-	and preci	se, or	neith	er accı	ırate n	or pred	cise: (l	Note: /	An a	accurate "	hit" is	a bulls	eye!)	
						$\widehat{\odot}$								
	Accurate?: Yes / No Accurate?				: Yes	Yes / No Accurate?: Yes / No			No					
	Precise?: Yes / No Precise?:							Yes / No Precise?: Yes / No						
Team	n 1 Team 2	Team 3	Team 4	Team 5	Team 6	Team 7	Team 8	Team 9	Team	n 10 Team 11	Team 12	Team 13	Team 14	
2.65	cm 2.75 cm	2.80 cm	2.77 cm	2.60 cm	2.65 cm	2.68 cm	2.60 cm	2.70cm	2.80	cm 2.75 cm	2.65 cm	2.62 cm	2.78 cm	
the le	A group of students worked in separate teams to measure the length of an object. Their data is listed above.							second group of students obtained the above data: The average length iscm.						
	The average length iscm. This is the mean or average.						• The	The precision of the measurement was						
	Subtract the highest value from the lowest value:cm. This is the range or spread.							tcm.						
							gro	In comparing groups, the first or the second, which group was more precise or was the precision the same? Justify your answer.						
a	The precision of the measurement can be shown as average \pm range. The precision of the measurement was													
-		_±	cm	۱.										