Name:	Grade/Group:
Subject: Chemistry-7 Teacher: Mrs. Raj	
Dato:	

Test 2: Lab, Measurements, Matter and its Properties

Directions: Determine the best answer for each question. Circle your answer on this test packet and bubble your answer heavy and dark on the bubble sheet.

1. An example of a physical change is

a. Baking a cakeb. Reacting sodium with waterc. breaking a glassd. burning wood

2. An example of a chemical change is

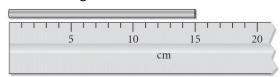
a. Burning paper c. dissolving sugar in tea

b. Mixing alcohol and water d. melting ice

3. The pure substances that cannot be broken down into any simpler substances are called

a. Compoundsb. Elementsc. moleculesd. bonds

- 4. Decanting is
 - a. A process in which the more volatile liquid is boiled off.
 - b. Dissolving a solid into a liquid.
 - c. Separating a solid from a liquid pouring of the liquid.
 - d. Heating a mixture two solids to fuse them together.
- 5. Read the length of the metal bar with the correct number of significant figures.



a. 20 cm c. 15.0 cm b. 15 cm d. 15.00 cm

6. Which of the following is a mixture?

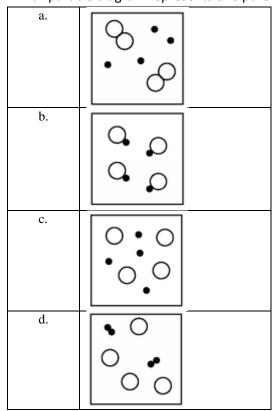
a. Pure waterb. Calcium carbonatec. Sugar waterd. Calcium

7. Which of the following is a compound?

a. Oil and water c. H₂

b. NaCl d. Sodium

8. Which particle diagram represents one pure substance only?



9	Choose the	property	from the	list that	is not a	physical	property
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a. Solubility

c. density

b. Color

- d. reactivity
- 10. How many significant figures are in the value, 202.30 mL?
 - a. 3

c. 5

b. 4

- d. 0
- 11. How many significant figures are in the value, 0.0172 dg?
 - a. 3

c. 5

b. 4

- d. 0
- 12. Choose a physical change from the following
 - a. Synthesizing a compound

c. dissolving a substance

b. Burning

- d. decomposing
- 13. Boiling point, melting point, and density are some of an element's
 - a. Nonreactive properties

c. chemical properties

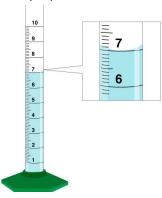
b. Physical properties

d. pure properties

14 If a spoonful of salt is	mixed in a glass o	f water, what is the mixtur	re called?		
a. Solute	inned in a glass o	c. solvent	e canca.		
b. Solution		d. element			
		G. G.GG.			
15. As part of the calibration of a new laboratory balance, a 1.000 g mass is weighed with the following results:					
	Trial	Mass			
	1	1.201 ± 0.001			
	2	1.202 ± 0.001			
	3	1.200 ± 0.001			
The balance is :					
a. Both accurate and	l precise	c. Precise but ina	ccurate		
b. Accurate but impr	recise	d. Both inaccurat	e and imprecise		
16. An element is					
a. A mixture of atom	ıs	c. a compound			
b. All one type of ato	om	d. a solution			
17. A compound is					
a. A mixture of diffe	rent atoms		atom chemically combined in		
		a specific ratio			
b. All one type of ato	om	d. a solution			
18. How many significant	figures are there	in 0.0006728 m?			
a. 7		c. 8			
b. 3		d. 4			
19. Which one of the follo	_				
a. Density = 5.43 g/c		c. It is silvery whi			
b. Dissolves in water	•	d. reacts violently	y with oxygen		
20. Which of the following is a physical property?					
a. Dissolves in alcoh	ol	c. rusts in water			
b. Is flammable		d. is a product of	burning coal		
21. The agreement of a particular value with the true value is called a(n)					
	articular value wii		l(fi)		
a. Error		c. Precision			
b. Accuracy		d. Certainity			
22. What safety items are	required for lab?				
a. Long pants		c. Safety goggles			
b. Closed-toe sh	oes	d. All of the abov	e		

23. Which	of the following is not considered charac	cteristic of a chemical change?
a.	Gas formed	c. Heat released
b.	Light released	d. Freezing
24. Which	of the following must be true for a chem	ical change to have occurred?
a.	A volume change	c. A state change
b.	A shape change	d. An identity change
25. Which	of the following would be a physical cha	nge?
a.	Baking a cake	c. Burning a log
b.	Melting ice	d. An explosion
26. The vo	lume of a liquid in a graduated cylinder s	
a.		c. The top of the meniscus
b.	The nearest even number	d. The bottom of the meniscus
27. Which	of the following is the measurement of t	he space an object occupies?
a.	Volume	c. Weight
b.	Mass	d. Temperature
28. Which	of the following is the measurement of h	not and cold?
	Volume	c. Weight
_	Mass	d. Temperature
20 Hoven	o is combined with water in a test tube a	nd two distinct lowers form. This is an average of
		nd two distinct layers form. This is an example of
_	An element	c. A homogeneous mixture
b.	A compound	d. A heterogeneous mixture
30. How w	vill you separate salt from a salt water?	
a.	Filtration	c. Decantation
b.	Evaporation	d. Magnetic separation
31. "Wafti	ng" is the proper technique for	
a.	neutralizing a spilled acid	c. washing chemicals from the eye
	•	,
b.	putting out burning clothing	d. smelling a chemical substance
32. When	can filtration technique be used?	
a.	To separate oil and water	
b.	To crystallize salt	
c.	To separate solid from a liquid	
d.	To separate a mixture of colored dyes	

33. Give a proper measurement for the liquid in the graduated cylinder below.



- a. 6.9 mL
- b. 6.90 mL

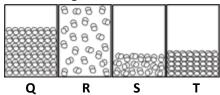
- c. 7.0 mL
- d. 7.00 mL

34. What is the name of the following piece of lab equipment?



- a. Drying rack
- b. Test tube

- c. Test tube rack
- d. Ring stand
- 35. Use the diagram below to answer the following question below



Each diagram shows the particles of a substance in a closed container. Which of these shows the substance that is most easily compressed?

a. Q

c. S

b. R

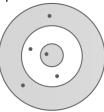
- d. T
- 36. To separate iron filings from sand, you will use a _____.
 - a. Funnel
 - b. Filter paper
 - c. Magnet
 - d. Beaker

- 37. A student does a calculation using her calculator and the number 280.57163 is shown on the display. If there are actually three significant figures, how should she show the final answer?
 - a. 280

c. 281

b. 280.

- d. 0.280
- 38. The marks on the following target represent someone who is:



- a. accurate, but not precise
- c. both accurate and precise
- b. precise, but not accurate
- d. neither accurate nor precise
- 39. All the following are characteristic properties of phosphorus. Which one is a chemical property?
 - a. Both red phosphorus and white phosphorus exist in solid allotropic forms.
 - b. The red form melts at about 600° C and the white form melts at 44° C.
 - c. The white form is soluble in liquid carbon disulfide, but is insoluble in water.
 - d. When exposed to air, white phosphorus will burn spontaneously, but red phosphorus will not.
- 40. A student is asked to measure 12 mL of a liquid as precisely as possible. Which piece of equipment should the student select for this task?
 - a. 25 mL beaker
 - b. 25 mL graduated cylinder
 - c. 25 mL Erlenmeyer flask
 - d. 25 mL volumetric flask