Name: _		Date:	
Praction	Practice Test 1		
	1.	An example of a mixture is A) hydrogen fluoride B) purified water C) gold D) the air in this room E) all of these	
	2.	Which of the following is an incorrect description? A) A homogeneous mixture. B) A heterogeneous compound. C) A solid element. D) A mixture of solids. E) A solution of gases.	
	3.	A homogeneous mixture is also called A) a heterogeneous mixture. B) a pure substance. C) a compound. D) a solution. E) an element.	
	4.	A solution can be distinguished from a compound by its A) variable composition B) liquid state C) heterogeneous nature D) lack of color	
	5.	Which is an example of a homogeneous mixture? A) vodka B) oily water C) soil (dust) D) sodium chloride E) aluminum	
	6.	The process of filtering a sand-saltwater mixture is a process.	
	7.	Which of the following is a homogeneous mixture? A) pure water B) gasoline C) jar of jelly beans D) soil E) copper metal	
	8.	How many millimeters are in 3.07×10^2 centimeters? A) 3.07×10^2 mm B) 3.07×10^1 mm C) 3.07×10^3 mm D) 3.07 mm E) 3.07×10^{-2} mm	
	9.	7.4 milliseconds is equal to how many seconds? A) 7.4×10^3 s B) 7.4×10^2 s C) 7.4×10^{-3} s D) 7.4×10^{-2} s E) 0.74 s	
	10.	Which of the following is an SI unit for expressing the mass of a block of Au? A) m B) g C) L D) pound	
	11.	The number of cubic centimeters (cm³) in 38.3 mL is A) 0.0383 cm³ B) 3.83 cm³ C) 38.3 cm³ D) none of these	
	12.	Using the rules of significant figures, calculate the following: 6.167 + 70 = A) 76 B) 80 C) 76.167 D) 77 E) 76.17	
	13.	The number 14.809 rounded to three significant figures is A) 15.0 B) 14.9 C) 14.81 D) 14.809 E) 14.8	

 14.	How many significant figures are in the number 4.00700×10^{13} ? A) 2 B) 4 C) 5 D) 6 E) none of these
 15.	How many significant figures are in the number 0.0040090? A) 8 B) 7 C) 6 D) 5 E) 4
 16.	Write the number 0.0005034 in scientific notation. A) 5.034×10^4 B) 0.5034×10^{-3} C) 5.034×10^{-4} D) 50.34×10^{-5} E) none of these
 17.	Convert: $0.00455 \text{ cm} = \underline{\qquad} \text{mm.}$ A) 4.55 mm B) $4.55 \times 10^{-2} \text{ mm}$ C) 0.455 mm D) $4.55 \times 10^{-4} \text{ mm}$ E) $4.55 \times 10^{-5} \text{ mm}$
18.	Cesium melts at 302 K and boils at 944 K. What would be the physical state of cesium at 25°C?
 19.	An experiment requires 40.1 g of ethyl alcohol (density = 0.790 g/mL). What volume, in liters, will be required? A) 3.17×10^{-2} L B) 1.97×10^{-5} L C) $5.08e4$ L D) 5.08×10^{-2} L E) 31.7 L
 20.	If a 100g sample of a metal has a volume of 9.67 mL, what is the density of the metal? A) 10.3 g/mL B) 1.03 g/mL C) 0.0967 g/mL D) 10 g/mL E) none of these
 21.	A runner jogs 4.1 miles every morning. How many kilometers does this represent? A) 2.5 km B) 6.6 km C) 49. km D) 0.39 km E) 2.5 km
 22.	A walker travels a distance of 1.2 miles. How many inches did the walker travel? (1 mi = 5280 . ft) (1 ft = 12 in) A) 6.3×10^3 in B) 5.3×10^2 in C) 14. in D) 10.0 in E) 7.6×10^4 in
 23.	The state of matter for an object that has a definite volume but not a definite shape is A) solid B) liquid C) gaseous D) elemental E) mixed
24.	Anything that has mass and volume is called
 25.	Which of the following is a physical change? A) burning gasoline B) cooking an egg C) decomposing meat D) evaporating water E) rusting iron
 26.	Which of these is a chemical property? A) Ice melts at 0°C. B) Oxygen is a gas. C) Helium is very nonreactive. D) Sodium is a soft, shiny metal. E) Water has a high specific heat.
 27.	An example of a chemical change is A) boiling alcohol B) grinding coffee beans. C) digesting a pizza D) coffee spilled on a shirt E) an ice cube melting in a drink

		28.	In a chemical change, A) a phase change must occur B) the original material can never be regenerated C) a phase change never occurs D) the products are different substances from the starting materials
		29.	If iodine melts at 114°C and boils at 184°C, what is its physical state at 98°C?
		30.	Which of the following is a chemical change? A) water boiling B) gasoline evaporating C) butter melting D) sugar dissolving in water E) paper burning
		31.	How many of the following are pure compounds? sodium, sugar, oxygen, air, iron A) 1 B) 2 C) 3 D) 4 E) 5
T	F	32.	True or false? A compound can consist of one kind of element.
		33.	Which of these is an element? A) water B) iron ore C) wood D) silver E) brass
		34.	An example of a pure substance is A) elements B) compounds C) pure water D) carbon dioxide E) all of these
		35.	Classify each of the following as an element (A), a compound (B), a homogeneous mixture (C), or a heterogeneous mixture (D).
			a. table salt b. chlorine gas c. sand in water d. petroleum e. caffeine
		36.	Which of the following is a homogeneous mixture? A) pure water B) gasoline C) jar of jelly beans D) soil E) copper metal
T	F	37.	A solid substance is not considered matter.
T	F	38.	True or False? The normal boiling point of water is 100°C, which is a physical property of the substance water.
T	F	39.	True or False? Gold is a relatively soft metal, which is a chemical property of the substance gold.
		40.	A change involves a change in one or more physical properties, but no change in the fundamental components that make up the substance. A) chemical B) physical C) mixed D) potential E) kinetic
T	F	41.	True or False? Metal rusting is an example of a chemical change.
Т	F	42.	True or False? Juice freezing into a popsicle is an example of a physical change.

Answer Key - Practice Test 1

- 1. D
- 2. B
- 3. D
- 4. A
- 5. A
- 6. physical
- 7. B
- 8. C
- 9. C
- 10. B
- 11. C
- 12. B
- 13. E
- 14. D
- 15. D
- 16. C
- 17. B
- 18. solid
- 19. D
- 20. A
- 21. B
- 22. E
- 23. B
- 24. matter
- 25. D
- 26. C
- 27. C
- 28. D
- 29. solid
- 30. E
- 31. A
- 32. False
- 33. D
- 34. E
- 35. a. C
 - b. A
 - c. D
 - d. C
 - e. B
- 36. B
- 37. False
- 38. True
- 39. False
- 40. B
- 41. True
- 42. True