Chapter One REVIEW

Stude	nt Name: Period:
1.	Which skill involves creating representations of complex objects or
	processes?
	A. Classifying
	B. Predicting
	C. Making models
	D. Evaluating
2.	Which of the following do scientists use when observing?
	A. Only their senses
	B. Only tools
	C. Their senses and tools
	D. Their tools and observations
3.	What kind of observations deals with numbers?
	A. Qualitative
	B. Quantitative
	C. Sensory
	D. Descriptive
4.	What kind of bias is a mistake in the design of an experiment that makes a
	particular result more likely?
	A. Deductive
	B. Cultural
	C. Personal
	D. Experimental
5.	What are you being when you let your personal feelings enter into a decision or
	conclusion?
	A. Inductive
	B. Deductive
	C. Subjective
	D. Objective
6.	Which attitude keeps a scientist from accepting ideas that may be untrue
	A. Open-mindedness
	B. Skepticism
	C. Curiosity
	D. Creativity
7.	Which is a common unit of density?
	A. g
	B. g/ml
	C. mm
	D. ml

<u>L</u>	<u>inderlined</u> word or words to make	e the statement true.
1)	Weight is a measure of how much mass is
c	ontained in a given volume.	
2	2)	On the Kelvin scale, water freezes at 0°C and
b	ooils at 100°C.	
3	3)	An object will float if it is <u>less</u> dense than the
S	urrounding liquid.	
4	+)	The <u>balance</u> is the tool used to measure mass.
5	5)	The basic unit for measuring volume is the
ŀ	tilogram.	
ϵ)	An object's temperature is the amount of space
i	t takes up.	
	What would you be most like now much the water level rises?	ely to measure by immersing an object in water and
A . 1	he mass of a rectangular solid	
B. t	he volume of a rectangular solid	
<i>C</i> . t	he mass of an irregular solid	
D. 1	he volume of an irregular solid	
10	A low percent error indicate	s that the result you obtained is
А. а	ccurate	
B. ir	accurate	
С. а	n estimate	
D. a	nomalous data	
11	Which of the following is the	middle number in a set of data?
<i>A</i> . m	nean	
B. m	edian	
C. m	ode	
2		
D. r	ange	

8. If the statement is true, write true. If the statement is false, change the

		f you add up the values in a data set and then divide the sum by the total lues, the result will be the
man	ibei oj va	ides, the result will be the
	A. mean	
	B. median	
	C. mode	
	D. range	
13.	In a arab	h, the variable on the <i>horizontal axis</i> (x-axis) is the
	• .	variable with the largest range
		variable with smallest range
		dependent variable
		independent variable
14.	In a grap	h, the variable on the <i>vertical axis</i> (y-axis) is the
		variable with the largest range
		variable with smallest range
	С.	dependent variable
	D.	independent variable
15.	A testabl	le prediction is a (n)
	Α.	hypothesis C. exercise
		variable D. experiment
16.		: data are considered more <i>reliable</i> if they are
	Α.	subjective and reproducible
	В.	objective and reproducible
	С.	numerical, subjective, and accurate
	D.	quantitative, objective, and unique.
17.	A factor	that is <i>purposely changed</i> by an experimenter is called a(n)
	Α.	independent variable
	В.	dependent variable
	С.	controlled variable
	D.	constants
18.	The depe	ndent variable
	Α.	might change as the controlled variable changes
	В.	always changes as the controlled variable changes
	С.	might change as the independent variable changes
	D.	always changes as the independent variable changes
19.	When des	signing a scientific investigation, the <i>first step</i> is to
	Α.	state the hypothesis
	В.	list a procedure
	С.	state the problem (write a scientific question)
	Ь	analyze the data

		rd for comparison that helps to ensure that the experimental result is d by the condition tested is the		
	Α.	control		
	В.	independent variable		
	С.	constant		
	D.	dependent variable		
21. The factors that <i>do not change</i> in an experiment are the				
	Α.	variables		
	В.	independent variable		
	С.	constants (controlled variables)		
	D.	dependent variable		
22. Which of these is a tool that can help you interpret data?				
	A.	theory		
	В.	variable		
	C.	hypothesis		
	D.	graph		
23. Who	at is	the last step to be completed when using the scientific method?		
	Α.	State the problem		
	В.	Test your hypothesis by conducting an experiment		
	C .	Analyze your data using graphs		
	D.	Draw conclusions and report results		