CP Physics Unit 1:		1:		Name:	
PreTe	est:		/ 58	Date:	Period:
TRUE	AND FALS	SE: C	Circle the Correct Answer: 2 pts. each		
Т	F	1.	A theory is an educated guess about	the answer to a scient	ific question.
Т	F	2.	An extensive collection of information about certain aspects of the natural w		• •
Т	F	3.	When scientific findings are expresse disprove by experiment.	d mathematically, the	y are harder to verify or
Т	F	4.	A scientific fact is something that has changed if disproved.	been tested over and	over as accurate but can be
Т	F	5.	A hypothesis is scientific if there exist	s a test for proving it v	vrong.
	TIPLE CHO ded. 2 pts		Choose the best answer to each que	stion and write the ap	propriate letter in the space
	6.	Ph	ysics is the most fundamental science	because:	
	_		You can better understand science in		tand physics
			Underneath biology is chemistry, and	-	
			The ideas of physics extend into more		, , ,
			All of the above	·	
	_ 7.	Wł	nich one of the following steps is NOT		
		a.	•		
		b.	•		ctions
		c.	•		
		d.	Guess the answer and predict its con	sequences	
	_ 8.	A s	cientific fact is:		
		a.	A guess that has been tested over ar		•
		b.	, ,		·
		c.	, , , , , , , , , , , , , , , , , , ,		•
		d.	An educated guess that has yet to be	proven by experimen	t
	_ 9.	Αŀ	ypothesis is:		
		a.	A guess that has been tested over an	d over again and alwa	ys found to be true
		b.	Close agreement by competent obse	rvers of observations of	of the same phenomena
		c.	A synthesis of a collection of data that	t includes well-tested	guesses.
		d.	An educated guess that has vet to be	proven by experimen	t

CP Physics Unit 1:

 10.	A theory is:
	a. A guess that has been tested over and over again and always found to be true
	b. Close agreement by competent observers of observations of the same phenomena
	c. A synthesis of a collection of data that includes well-tested guesses.
	d. An educated guess that has yet to be proven by experiment
	, , , , ,
11.	Which of these is a scientific hypothesis?
 	a. An unseen second universe surrounds the universe.
	b. Atoms are the smallest particles of matter that exist
	c. Albert Einstein is the greatest Physicist of the twentieth century.
	c. Albert Emistern is the greatest i hysicist of the twentieth century.
 12.	Which of the following statements is not true?
	a. Technology is a method of solving practical problems
	b. Science is a method of answering theoretical questions
	c. Science, not technology, excludes the human factor
	d. Both science and technology exclude the human factor
13.	Which one of the following problems would NOT be a part of physics?
	a. Identifying all the bones in a human body
	b. Identifying all forces acting on a person who is walking uphill
	c. Calculating the instantaneous velocity of an accelerating car
	d. Calculating the average density of a person
	a. Caronating the average density of a person
14.	To test a scientific hypothesis, you would:
	a. Set up many experiments and look at the results
	b. Set up one experiment and look at the results
	c. Use the results of only the experiments that confirm the hypothesis
	d. Find the best result and report only that result
15.	The difference between a hypothesis and a theory is that a hypothesis:
 	a. Is a guess that has not been well-tested, whereas the theory uses well-tested and
	verified guesses.
	b. Is testable, whereas a theory is not testable.
	c. Is not testable, whereas a theory is testable
	d. Can be revised, whereas a theory cannot be revised.
	,, <del>,</del>

SHORT ANSWER: In the space below, complete the following question(s). 10 pts.

16. Write a short paragraph about the scientific method. i.e., list the steps and describe each.

SCIEN	NTIFIC NOTATION PROBLEMS: Convert the following number into scientific notation 2 pts ea
17.	92.03
18.	6730
	Convert the following numbers into standard notation: 2 pts. each
19.	4.391 x 10 <sup>-3</sup>
20.	6.825 x 10 <sup>2</sup>
CONV	VERSION PROBLEMS: Show your work in converting the following 5 pts. each
21.	How many minutes are there in 1 year?
22.	How many feet are in 500 meters?