est completes the statement or answers the question.	
talevision sets is an example of association with	1)
television sets is an example of association with	''
R) False	
<i>b)</i> 1 4130	
ciation and causation, association only, or neither	2)
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ger than goldfish who live in small ponds.	
- · · · · · · · · · · · · · · · · · · ·	3)
B) 1NO	
ciation and causation association only or neither	4)
ciation and causation, association only, or heitier	4)
ciation and causation, association only, or neither	5)
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ses your score on a exam.	
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ses your score on a exam. What is the explanatory	6)
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	est completes the statement or answers the question.  Itelevision sets is an example of association with  B) False  Ciation and causation, association only, or neither ger than goldfish who live in small ponds.  Ger than goldfish who live in small ponds.  B) No  Ciation and causation, association only, or neither ciation and causation, association only, or neither ses your score on a exam.  Ses your score on a exam. What is the explanatory  B) Weather or not taking a practice exam ses your score on a exam. Is the explanatory  B) Categorical  Ses your score on a exam. What is the response  B) Score on a exam.  Ses your score on a exam. Are the response variable  B) Categorical

Determine whether the study depicts an observational study or	•	
10) The personnel director at a large company would like is widely used by employees. She calls each employee		a 10)
their own lunch, eat at the company cafeteria, or go ou	5 5	
A) experiment	B) observational study	
11) A medical researcher obtains a sample of adults suffer	5 5	
people to a treatment group and 73 to a placebo group over a period of three months and the placebo group r At the end of three months the patients' symptoms are	eceives a placebo over the same time frame	
A) experiment	B) observational study	
12) A researcher obtained a random sample of 100 smoker		
After interviewing all 200 participants in the study, the among the smokers with the rate of depression among		n
A) experiment	B) observational study	
Indicate whether the study described is an observational study	or a controlled experiment.	
13) A group of students is divided into two groups. One g		d 13)
the other group is given a placebo. After six months the given a health exam to see whether the new vitamin has	•	
placebo.	as recalling benefits that are better than a	
A) Observational study	B) experiment	
Solve the problem.		
<ul><li>14) Only randomized experiments can lead to claims of ca</li><li>A) False</li></ul>	usation.  B) True	14)
A group of 500 patients who suffer from skin cancer were aske		
a new medication. The patients were randomly divided into tw one that received a placebo pill. A good outcome was defined a		
treatment. The results of the study are below.	s the cancer being in remission after 6 mor	THIS OF
Medication Placebo		
Remission 160 130		
Not in remission 80 130		
15) Approximately what percent of patients who took the		15)
A) 50% B) 67%	C) 58% D) 48%	
16) Was the new medication effective for cancer remission	?	16)
A) No, this was not a controlled experiment.		
<ul><li>B) Yes, both groups had more patients with cancer in</li><li>C) No, the patients who took the placebo also had cancer in</li></ul>		
D) Yes, a higher percent of patients who took the me		
natients who took the placeho		

17) Can we conclude that the cancer remissions were caused by the new medication?			
A) No, even though this is a controlled experiment, there might be a confounding factor since the			
placebo group had cancer remissions too.			
B) Yes, this is a controlled experiment. Since a high medication had cancer remissions, we can concl			
C) No, even though this is a controlled experiment,			
treatment and control groups, so we cannot con			
3			
Solve the problem.			
18) When the effects of the explanatory variable upon the	response variable cannot be determined, then	18)	
A) Then the claim is invalid.	B) There is sampling error.	_	
C) A lurking variable is present.	D) Confounding has occurred.		
10) A	de contra la descrita de la Contra de la Con	10)	
<ol> <li>Association between explanatory and response varial causation.</li> </ol>	ble can be due to confounding variables, not	19)	
A) False	B) True		
. 4 . 2.02	<b>-y</b>		
20) Confounding variables are often present in odservation	onal study.	20)	
A) False	B) True	· •	
A 2014 headline reads "Sitting is the New Smoking: Ways a Se			
mounting evidence for ways in which sitting is bad for you. A	9		
by following 69,260 men and 77,462 women and finding that for significantly more likely to get cancer.	or women, those who spent more leisure time s	sitting	were
21) What is the explanatory variable?		21)	
A) Weather or not get cancer	B) hours spent leisure time sitting	-1)	
, J	, , ,		
22) Is the explanatory variable categorical or quantitative?		22)	
A) Categorical	B) Quantitative	•	
23) What is the response variable?		23)	
<ul> <li>A) hours spent leisure time sitting</li> </ul>	B) Weather or not get cancer		
		24)	
<ul><li>24) Is the response variable categorical or quantitative?</li><li>A) Quantitative</li></ul>	B) Categorical	24) .	
A) Quantitative	b) Categorical		
25) Is the 2015 study an observational study or a random	uized experiment?	25)	
A) Observational Study	B) Experiment		
	•		
26) Can we conclude from the 2015 study that spending	more leisure time sitting causes cancer in	26)	
women?	Ç	•	
A) Yes, it does, because an association was found a	nd the result comes from a randomized		
experiment	al alord		
B) No, it does not, because this was an observation	ai study.		