## PRACTICE III

L.	A researcher wants to determine if watching TBV from five feet or closer damages a person eyes. The researcher wants to know if this is the truth or a myth.
	(a) How can an observational study be performed?
	(b) How can an experiment be formed?
	(c) Which is more appropriate here? Explain.
	(d) If an experimental design was implemented, give an ethical consideration that would cau the researchers to halt the experiment early
	the researchers to hait the experiment early

esign a completely randomized experiment.
te blocking and for what purpose?
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3.	have who eat	ompany efficiency expert believes that employees who eat at least 1000 calories at breakfast higher productivity levels at work. She interviews a random sample (SRS) of 30 employees claim to eat under 1000 calories at breakfast and an SRS of 25 employees who claim to over 1000 calories at breakfast. In each group, she looks up productivity levels on the job. Explain why this is an observational study and not an experiment.
	(b)	Give an example of a possible confounding variable with an explanation in the context of the study.
	(c)	If the employees who eat over 1000 calories have higher productivity records, is it reasonable to encourage all employees to eat larger breakfast? Explain.
	(d)	How could the efficiency expert design an experiment to study caloric intake at breakfast with productivity in the workplace?