

AP Statistics: Chapter 21 Project Quiz

TO CHECK OR NOT TO CHECK: You work at a retail store. The alarm on the door frequently sounds when people are leaving. You must decide whether to check someone's bag for stolen merchandise when they leave or just let them go.

a) State the null and alternative hypotheses in words:

b) Complete the table below:

	H_0 is true	H_0 is false
Do Not Reject H_0		
Reject H_0		

c) Describe the Type I error in the context of this situation:

d) Describe the Type II error in the context of this situation:

e) Describe Power in the context of this situation:

SPOOKY NOISES: After a night of serious studying at Starbucks, you come home to find your parents gone to dinner and the house empty. As you head to your room to drop off your backpack, you hear a suspicious noise from the other side of the house. Should you call the police to check it out?

a) State the null and alternative hypotheses in words:

b) Complete the table below:

	H_0 is true	H_0 is false
Do Not Reject H_0		
Reject H_0		

c) Describe the Type I error in the context of this situation:

d) Describe the Type II error in the context of this situation:

e) Describe Power in the context of this situation:

Name:

Date:

Period:

SCORE:

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CHAPTER 21 PROJECT

Your “quiz” for this chapter is to create your own **CREATIVE SCENARIO** (at least 100 words), similar to the problems above from previous AP Stats students. The project is to be typed and will be due on **FEB. 20, 2015**.

My scenario:

(Problem written by _____ Class of _____)

a) State the null and alternative hypotheses in words:

b) Complete the table below:

	H_0 is true	H_0 is false
Do Not Reject H_0		
Reject H_0		

c) Describe the Type I error in the context of this situation:

d) Describe the Type II error in the context of this situation:

e) Describe Power in the context of this situation: