

Police Officer's Dilemma Signal Detection Theory Lab

After you complete the data collection project, please record your data in the box below.

A. Given these data, complete the following summary table. Once you have computed your d' , c and β , please report those values to your instructor.

	Probability	z score	$f(z)$	d'	c	β
Hits						
False Alarms				XXXXXX	XXXXXX	XXXXXX

B. Interpret your d' , c and β :

C. In the space below, please draw your *overlapping* curves to represent the signal plus noise distribution and the noise only distribution. On these curves, place c and clearly shade in the area that corresponds to hits, misses, false alarms, and correct rejections.

D. In the class as a whole, was there evidence of students' ability to detect guns? (in other words, was sensitivity— d' —greater than zero?)

E. In the class as a whole, was there evidence of the students having a response bias? (in other words, was response bias-- β --different than 1?)