Name	Da	ate	Period	
	Ch 19 Testing	Hypotheses	<u>Practice</u>	
			ntion, and show work as needed to	
1) The International Olym 42%, even with new spor Broadcasting and clothing participation increases at exhibitions. The sports exevidence that the participation	pic Committee states that the ts such as weight lifting, hamn g companies want to change t the next games. An independ pert reported that 202 of 454	e female participati ner throw, and mo heir advertising and ent sports expert a athletes in the ran	on in the 2004 Summer Olympic Gam dern pentathlon being added to the G d marketing strategies if the female arranged for a random sample of pre- adom sample were women. Is this stro	nes was Games. Olympic
Model:				
Mechanics:				
Conclusion (in context):				
b) Was your test one-tail u	upper tail, one-tail lower tail, or	two-tail? <i>Explain wh</i>	y you chose that kind of test in this situa	ntion.
c) Explain what your P-val	ue means in this context.			

shown to perform effectively. An independent laboratory arranged a preliminary test. If the device can detect explosives at a rate greater than chance would predict, a more rigorous test will be performed. They placed four empty boxes in the corners of an otherwise empty room. For each trial they put a small quantity of an explosive in one of the boxes selected at random. The company's technician then entered the room and used the sensor to try to determine which of the four boxes contained the explosive. The experiment consisted of 50 trials, and the technician was successful in finding the explosive 16 times. Does this indicate that the device is effective in sensing the presence of explosives, and should undergo more rigorous testing? a) Test an appropriate hypothesis and state your conclusion. Hypotheses: Model: Mechanics: Conclusion (in context): b) Was your test one-tail upper tail, one-tail lower tail, or two-tail? Explain why you chose that kind of test in this situation. c) Explain what your P-value means in this context.

2) A company claims to have invented a hand-held sensor that can detect the presence of explosives inside a closed container. Law enforcement and security agencies are very interested in purchasing several of the devices if they are