Name	Date	Period	
Ch. 20 More about Tests & Intervals Practice			
<u>Directions:</u> Read each question carefully understanding of the concepts.	. Be sure to use proper notat	ion, and show work as needed to indicate you	ur
use toothpaste buy Crest tooth a new marketing campaign whi	paste. A marketing dir ich will include advertis rtment conducts produ	cerned that only 19.5% of the people ector suggests that the company in sements and new labeling for the act trials in test markets for one mo els.	vest in
1. Write the company's null and altern	ative hypotheses.		
2. In this context describe a Type I erro	or and the impact such an err	or would have on the company.	
3. In this context describe a Type II err	or and the impact such an er	ror would have on the company.	
4. Based on the data they collected du confidence interval for the proportion	_	•	
(16%, 28%). What conclusion should the	_	·	
5. What level of significance did resear	rch department use?		

6. Describe to the board of directors an advantage and a disadvantage of using a 5% alpha level of significance instead.
7. The board of directors asked the research department to extend the trial period so that the decision can be made on two months worth of data. Will the power increase, decrease, or remain the same?
8. Over the trial month the market share in the sample rose to 22% of shoppers. The company's board of directors decided this increase was significant. Now that they have concluded the new marketing campaign works, why might they still choose not to invest in the campaign?