Inferential Statistics Test

I. A sample of 36 out of 25,000 baseball fans attending a game revealed average refreshment spending of $7.60. The population standard deviation was $2.10. The makers of Dud beer will not distribute their product to a ballpark unless it is possible that the average fan spends at least $8.00 on refreshments. Use the 5-step approach to hypothesis testing and a .01 level of significance to test whether this ballpark qualifies to receive Dud beer.

Data set for those using statistics software			
Refreshment Spending			
4.50	8.00	9.00	9.00
6.95	4.90	7.00	8.05
10.00	8.00	9.50	2.00
11.00	9.00	5.00	8.00
8.05	8.50	10.00	4.80
6.00	4.90	11.00	9.00
6.50	7.00	7.00	8.00
11.00	8.00	5.00	5.75
9.10	6.00	9.10	9.00

II. A marketing test of chocolate flavored shaving cream revealed a favorable response from 35 of 50 test subjects. Test subjects were chosen at random from the company's 1,200 employees. This product will be manufactured if at least 80% of the potential market like the product.

A. Using the 5-step approach to hypothesis testing and a .05 level of significance, determine whether the product will be manufactured.

Data set for those using statistics software				
Favorable and Unfavorable Attitudes Toward Chocolate Flavored Shaving Cream				
U	F	F	F	F
F	U	F	F	U
U	F	U	F	F
U	F	F	F	U
F	U	F	F	F
U	F	F	U	F
F	F	F	F	F
U	F	F	U	U
F	F	F	F	F
F	F	F	U	U

B. What are the pros and cons of using company employees to test this product?