Score for this attempt: **10** out of 10 Submitted Nov 17 at 8:03am This attempt took 16 minutes.

Question 1	1 / 1 pts
1. Which best describes Quality?	
a. How to make stuff	
b. The change in look from one item to another	
c. How consistent machines produce the same product	
d. Meeting or exceeding customers' expectations	
○ e. Fit for use	

Question 2	1 / 1 pts
2. Which is not a dimension of product quality?	
a. Value	
b. Conformance to Specifications	

C. Serviceability	
O d. Performance	
O e. Durability	
Question 3	1 / 1 pts
Statistical Process Control looks at variation as being of two	o types: Random and Assignable?
True	
○ False	
Question 4	1 / 1 pts
4. Which is not one of the four costs of quality?	
a. Internal Failure	
○ b. Appraisal	
○ c. External Failure	

d. Performance

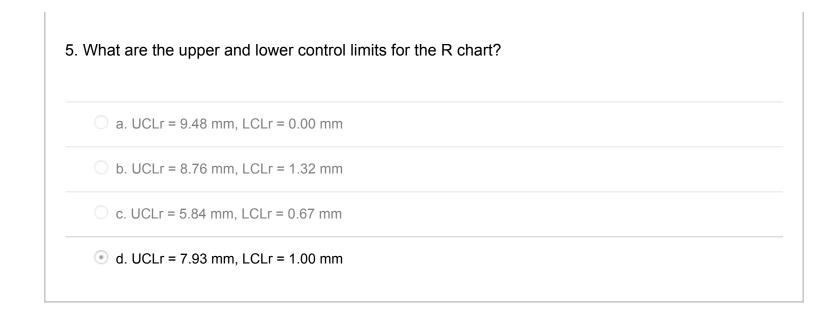
e. Prevention

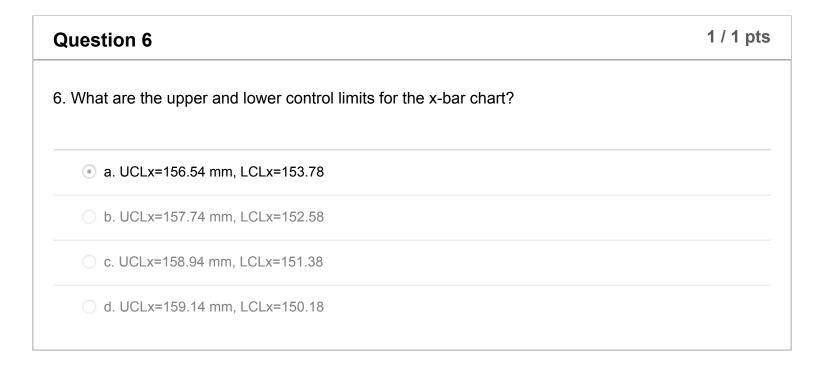
Use the following for Questions 5-7. Assume 3 sigma limits:

## John Doe works at Precision Brakes, a supplier to Honda. A critical dimension is the rotor diameter. John has taken 10 rotors per day for the past 5 days and measured them. The data from his samples are given in the table below:

		-
Day	Mean (mm)	Range (mm)
1	156.9	4.2
2	153.2	4.6
3	153.6	4.1
4	155.5	5.0
5	156.6	4.5

Question 5 1 / 1 pts





Question 7	1 / 1 pts
7. Is this process in control?	
O a. Yes	
○ b. No. There are points above the R chart control limits	
c. No. There are points out of x-bar control limits	
O d. No. There are points below the R chart control limits	

## Use the following for Questions 8-9:

Whole Food Inc. uses SPC to ensure its protein bars have the proper weight. Based on an in control process using 3 sigma limits, the control limits were found to be UCLr = 1.14, LCLr=0, UCLx=6.56, LCLx=5.84. Over the last 5 days, the following additional samples have been taken:

		Weight		
Sample	Bar #1	Bar #2	Bar #3	Bar #4
1	6.3	6.0	5.9	5.8
2	6.0	6.0	6.3	5.8

3	6.3	5.1	6.1	5.9
4	6.3	6.6	6.2	5.9
5	6.5	6.0	6.5	6.9

1 / 1 pts

Question 9 1 / 1 pts

9. A similar extra-large product has a manufacturing process that creates snack bars with a process mean of 18 ounces and standard deviation of 2.5 ounces. According to Cpk is this process capable of meeting an 17.5 ounce +-2.5 requirement?

a. Yes, Cpk is 2.67		
o b. Yes, Cpk is 4		
o. No, Cpk is .267		
O d. No, CpK is .4		

Question 10	1 / 1 pts
10. Mustek makes DRAM memory chips. The process yields products with an average lithours with a standard deviation of 100 hours. The requirement from IBM, Dell and others hours +- 1,800 hours. Using Cpk is this process capable of meeting the requirement from and others?	s is 2,400
a. Yes, Cpk is 8	
○ b. No, Cpk is 0.8	
c. Yes, Cpk is 4	
O d. No, Cpk is 0.4	

Quiz Score: 10 out of 10