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Six Sigma Certification Exam Questions with Answers

(Based on ASQ Black Belt BOK topics)

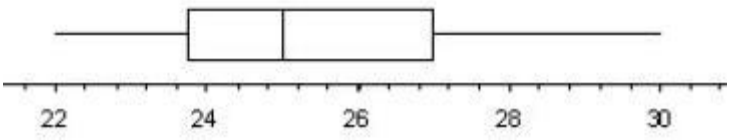
V. Measure

D. Basic statistics

1) After successfully completing black belt six sigma training, Patricia is asked to identify a symbol which does not refer to either mean or standard deviation. Which symbol does she need to choose?

a) μ
b) σ
c) s
d) n

2) If asked at a six sigma certification exam which diagram this is



you will correctly answer:

a) whisker quadrant
b) stem and leaf diagram
c) box plot
d) skewed box line

3) When a six sigma training instructor asked her nine trainees to write down a number from 0 to 10 , she got the following distribution:

2 3 5 6 7 2 2 4 3

What is the mode of this distribution?

1) 2
2) 9
3) 3.7
4) 2.9

4) Every green belt who understands the basics of six sigma statistics knows that one of the following statements correctly describes CLT. Which is it?

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a) The sampling distribution of the mean approaches a normal distribution as the sample size increases, regardless of the shape of original distribution
b) The sampling distribution of the squared variance approaches a binomial distribution as the sample size increases, regardless of the shape of original distribution
c) Modal distribution does not approach a normal shape when the variance is less than 1
d) Central limits can be used interchangeably with six sigma statistical process applications

5) A black belt who is leading a lean six sigma team is tasked to calculate the median of hours that his 9 member team spent over 3 weeks. The worked hours log looks like this:

12 34 56 32 65 76 23 45 56

What is the median of hours worked by the team?

a) 65
b) 44.3
c) 45
d) 22.5