Math 2201 - Ch 5: Statistical Reasoning   ANSWER KEY $\sigma = \sqrt{\dfrac{\sum (x - \bar{x})^2}{n}}$

Midterm Review 2015

Multiple Choice
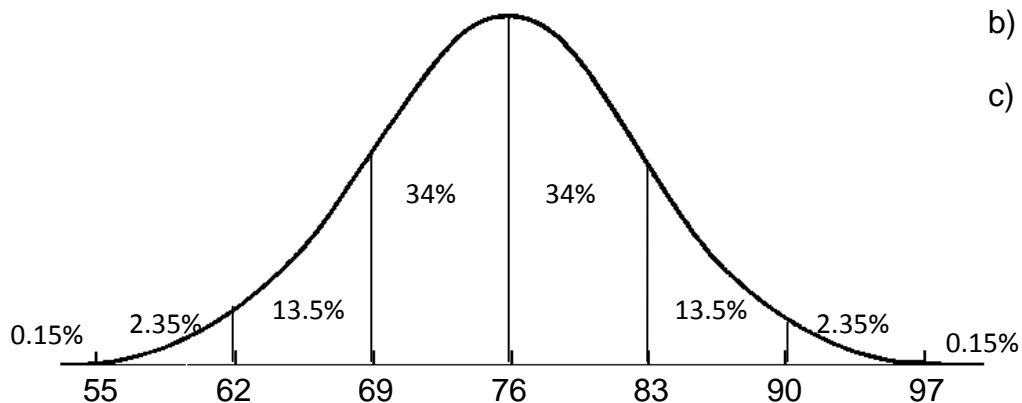1. D   2. D   3. C   4. C   5. C   6. C

Long Answer
7. range = 34   mean = 76.45   median = 78   mode = 84

8a

b) 81.5%

c) 26 students

9a) same mean

b) Class B – a greater standard deviation means more spread out from the mean.

c) Most likely in Class A – that curve has a lower standard deviation, is taller and narrower so a higher number of students (greater percent of the class) scored closer to the mean.

10. First 7 shifts – standard deviation is 3

Second 7 shifts – standard deviation is 2.7

Since the standard deviation is decreasing, it is showing that Janine is being more consistent at arriving to work on time. So she shouldn't lose her job.