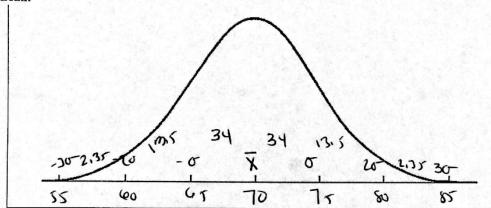
In a normal distribution, what percent of the values lie:

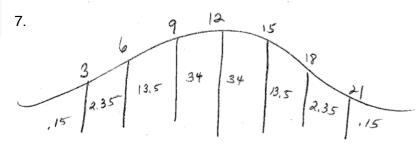
1. below the mean?

- 2. above the mean? 50%
- 3. within one standard deviation of the mean? 34+34=48%
- 4. within two standard deviations of the mean? 13.5 + 68 + 13.5 = 9590
- 5. within three standard deviations of the mean? 2.3r+9172.3r = 99.795
- 6. 2000 freshmen at State University took a biology test. The scores were distributed normally with a mean of 70 and a standard deviation of 5.) Label the mean and three standard deviations from the



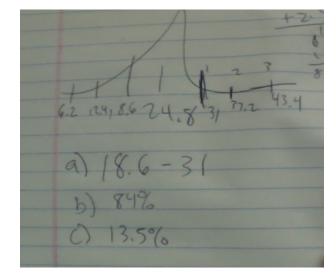
Answer the following questions based on the data:

- a) What percentage of scores are between scores 65 and 75? 34+34=68%
- b) What percentage of scores are between scores 60 and 70? 13, 5 +34 = 47.59)
- c) What percentage of scores are between scores 60 and 85? 13,5 + 34+34+13,5+2.35 = 197.36%
- 100-99.7 = d) What percentage of scores is less than a score of 55?
- percentage of scores is greater than a score of 80? 2.35 + .15=12.5% e)

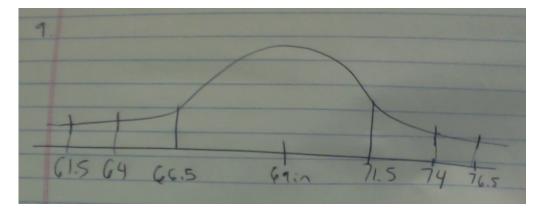


- a. 68%
- b. 34%
- C. 2.5%
- d. 16%

8.



9.



10.

