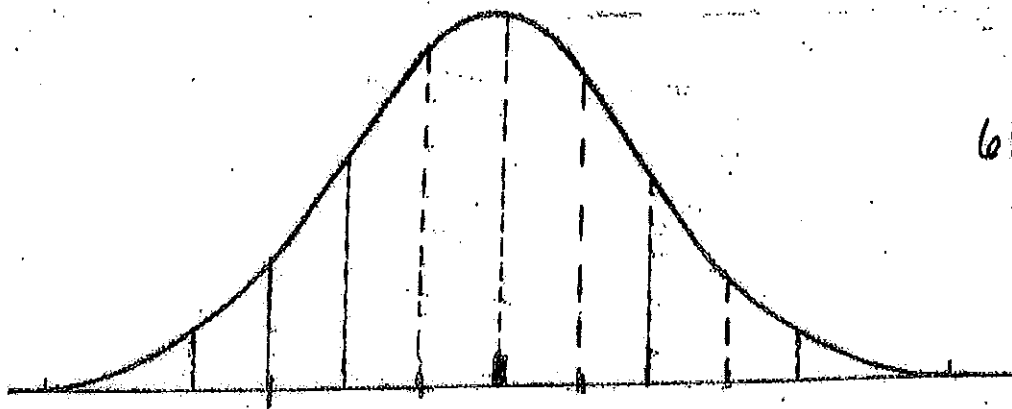# Normal Distribution
Activity #44

2000 Freshmen at Duke University took a biology test. The scores were distributed normally with the mean of a 80 and a standard deviation of 5. Label the <u>mean</u> and the <u>three standard deviations</u> from the mean. Then answer the questions below.

"Empirical Rule"
⇓
68%, 95%, 99.7%

① What percentage of the scores fall between 75 AND 90? _____

② What percentage of the scores fall between 75 and 85? _____

③ What percentage of the scores fall between 65 and 90? _____

④ What percentage of the scores are greater than 80? _____

⑤ What percentage of the scores are between 70 and 85? _____

⑥ Approximately <u>how</u> <u>many</u> <u>students</u> scored higher than 85? _____

⑦ Approximately how MANY students scored between 60 AND 95? _____