A.P. PSYCHOLOGY: **PRACTICE ON STATS**

$\bar{x} = 500$

1. SAT scores (each of the three sections) are normally distributed with a mean of 500 and a standard deviation (SD) of 100. Using that information and your rapidly growing knowledge of statistics, please find the following:

A) What are the median and modal scores for the SAT?
B) A (Z) score of +2 = _____
C) A (Z) score of -3 = _____
D) What percent of the scores fall between 300 and 600?
E) What percent of the scores fall between 400 and 600?
F) What percent of the scores fall between 300 and 700?
G) What percent of the scores fall below 500?
H) If your score is 700, what percentile are you in?
I) If your score is 200, what percentile are you in?

2. If a set of standardized test scores is normally distributed with a mean of 40 and a (SD) of 3, approximately 68% of the scores are between scores of _____ and _____.

3. Which of the following lists would have a greater standard deviation?
   A. 10, 11, 12, 12, 14, 15
   B. 31, 35, 36, 41, 52, 53