1) The students in a math class took the Scholastic Aptitude Test (SAT). Their math scores are shown below. Find the mean score.

552 593 358 352 537

349 357 596 470 482

2) Suppose that there are 400 students in your school class. What class rank is the 20th percentile?

3) The lifetimes of light bulbs of a particular type are normally distributed with a mean of 370 hours and a standard deviation of 5 hours. What percentage of the bulbs have lifetimes that lie within one standard deviation of the mean on either side? (Use the “68-95.99.7 Rule”)

4) Of the histograms below, which one is most likely to be based on a normally shaped

data distribution?



5) The distribution of B.A. degrees conferred by a local college is listed below, by

major.

Major Frequency

English 2,073

Mathematics 2,164

Chemistry 318

Physics 856

Liberal Arts 1,358

Business 1,676

Engineering 868

 9,313 total

What is the probability that a randomly selected degree is not in Mathematics?