

**ECO239 (1) Quiz 5 Dec. 27. 2017**

ID/Name

1. SAT scores are distributed normally with mean 1500 and standard deviation of 300. Answer the following questions.

(a) What is the probability that SAT score is between 1100 and 1650?

(b) In order to be in top 10%, what is the minimum point you should score?

2. The probability of actually having snowy weather when the weather forecast predicts snow is 70% in Ankara. Out of 50 days of snow-forecasts, what is the probability that we actually have less than 30 snowy days?

(a) Set up the procedure for the calculation using Binomial distribution.

(b) Solve it using Normal Approximation.