Homework Solutions
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Exercise 69

(a) The expression $P(1050 < X < 1250)$ stands for the probability that the SAT score of a randomly selected applicant is between 1050 and 1250. Its value is given by `normalcdf(1050,1250,1170,80)`, which is 0.7745.

(b) (i) The upper 2.5% begins at the 97.5th percentile, so an applicant must score at least at the 97.5th percentile.

(ii) The value is given by `invNorm(.975,1170,80)`, which is 1326.8, or 1327.