
Elementary Statistics – Practice Test – Chapter 5

On the standard normal probability table, look up the following probabilities.

1. $P(z < 1.79) =$
2. $P(z > -2.08) =$
3. $P(-1.42 < z < 2.73) =$

Find the z -score corresponding to the given information.

4. The area of the tail to the right of this z -score is approximately 0.11.
5. This z -score represents, approximately, the 85th percentile.

The mean weight for adult males is 158.1 pounds, with a standard deviation of 22.0 pounds, distributed *normally*. Let x represent the weight of a randomly selected adult male. Compute the following probabilities.

6. $P(x > 180) =$
7. $P(171 < x < 190) =$
8. Using the mean and standard deviation for adult male weights given above, what weight represents, approximately, the 92nd percentile?