1. The weights of infants at birth born in a certain area are normally distributed with mean 6.8 pounds and standard deviation 1.2 pounds.
   (a) What is the z-score of an infant whose birth weight is 8.5 pounds?

   (b) What is the birth weight of an infant whose z-score is -1.3?

   (c) Out of 10,000 babies, about how many have birthweight between 6.8 and 9.2 pounds?

   (d) Out of 10,000 babies, about how many have birthweight between 4.4 and 5.6 pounds?

   (e) What is the percentile of an infant whose birth weight is 4.4 pounds?

2. Yearling Angus steers (cattle) have weights that are normally distributed with mean 1152 pounds and standard deviation 84 pounds. Ewes (female sheep) have weights that are normally distributed with mean 160 pounds and standard deviation 30 pounds. Suppose that a ewe weighs 200 pounds, which is high for a ewe. How much would a comparably heavy steer weigh?