

Exercise Problems for Normal Distributions

Name _____

1. The amount of coke in the 2-liter bottles has a normal distribution with mean 2.05 *liter* and standard deviation of .1. If you bought a 2-liter bottle of coke, what is the probability that it contains less than 2 liter of coke?
2. The amount of money spending in the Canfield Fair for families who go to the fair follow a normal distribution with mean \$60 and standard deviation of \$20. If the pattern stays the same this year. What percentage of the families will spend more than \$80 this year?
3. The morning pulse rates for a particular population follow a normal distribution with mean 70 per minute and standard deviation of 4. If doctor told me that my pulse rate is at 70th percentile, what would be my pulse rate?
4. If my son's stanine score from an achievement test is 7, he is at least at what percentile of the whole population that took the test?