1. If $X$ is normally distributed with mean 100 and standard deviation 8, find
   
   (a) $P(88 < X < 108)$,

   (b) 70th percentile.

2. If $X$ has a Binomial distribution with sample size $n = 100$ and the success probability $p = 0.5$, find
   
   (a) $P(45 < X < 55)$,

   (b) $P(X > 60)$. 