The distribution of weights of 9-ounce bags of a particular brand of potato chips is approximately Normal with mean = 9.12 ounces and standard deviation = 0.15 ounce.

a. If one bag is selected, what is the probability that it weighs less than the advertised weight of 9 ounces?

$$Z = \frac{9 - 9.12}{1.15} = -.80$$
P(z=-.80) = .2119

ed. what is the probability that 3 of the 5 backweigh less than the

b. If 5 bags are opened, what is the probability that 3 of the 5 bags weigh less than the advertised weight?

$$P(x=3) = (5)(.21)^{3}(.79)^{2} = bpdf(5,.21,3) = (.0578)$$

c. If a sample of 10 bags is taken, what is the probability that the mean weight is less than 9 ounces? CLT

