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?

$$
\begin{aligned}
z=\frac{9-9.12}{.15}=- & 80 \\
& P(z<-.80)=2119 \text { hal } 9.12
\end{aligned}
$$

b. If 5 bags are opened, what is the probability that 3 of the 5 bagiswneighless than the advertised weight? $\qquad$ -- $\qquad$
$\qquad$

$$
P(x=3)_{n}=\binom{5}{3}(.21)^{3}(.79)^{2}=\operatorname{bpdf}(5, .21,3)=.0578
$$

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


